

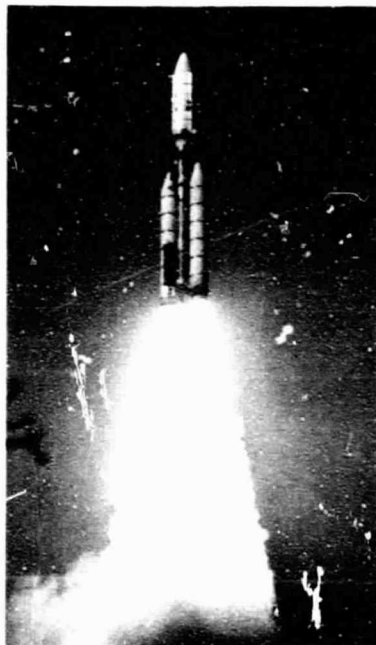
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Detroit Space Odyssey

May 3-8, 1982



(NASA-TM-85487) DETROIT SPACE ODESSEY
Final Report (NASA) 119 F HC A06/MF A01
CSCL 22A

N84-15164

Unclass

H2/12 15263

Summary Report

Prepared by Harrison Allen, Jr.
Chief, Technology Utilization
and Special Programs Office



National Aeronautics and
Space Administration

Lewis Research Center
Cleveland, Ohio 44135

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Summary

NASA Lewis Research Center in conjunction with the Detroit Public Schools and Wayne State University sponsored an Aerospace Educational Symposium for the City of Detroit on May 3 through 8, 1982. The symposium included personal appearances by NASA astronauts, NASA exhibits, aerospace science lecture demonstrations (Space-mobile Lectures), and talks on job opportunities in aerospace and on the benefits of the Space Program. Monday through Friday, the program was directed mainly at (public, parochial and private) student groups, each of which spent three hours at the symposium site, Wayne State University campus, to participate in the symposium activities. On Saturday, the symposium was open to the general public and consisted of the NASA exhibits, aerospace science lecture demonstrations, films, talks on the benefits of the space program, and a special tasting demonstration of "space food" meal systems.

Introduction

"Detroit Space Odyssey" was a one-week aerospace educational symposium sponsored jointly by the NASA Lewis Research Center, the Detroit Public Schools and Wayne State University. The purpose of the Space Odyssey was to provide Detroit area students and teachers an opportunity to learn more about aerospace science and technology and its application for improving our way of life.

"Detroit Space Odyssey" was an exhibition and discussion symposium designed to:

- (1) explain the activities of NASA and to tell why continued research in aeronautics and astronautics (space) is important.
- (2) explore academic and employment opportunities, and
- (3) demonstrate aerospace technology advances and potential application to our everyday lives.

The Symposium

VIP Briefing Reception

As an introduction to the "Detroit Space Odyssey" a VIP Briefing Reception was conducted on May 2, 1982, in the Student Center Building of Wayne State University.

The VIP program agenda was as follows:

3:00 p.m.	-	Call to Order - Mr. Arthur Johnson, Vice President, Community Relations Wayne State University
Welcome	-	Dr. Corrine L. Gilb, Planning Director City of Detroit (representing Mayor Coleman Young)
Remarks	-	Dr. Arthur Jefferson, Superintendent Detroit Public Schools
Remarks	-	Dr. Thomas N. Bonner, President Wayne State University
Overview of Detroit Space Odyssey Program	-	Mr. Harrison Allen, Jr. NASA Lewis Research Center
Remarks	-	Dr. John Klineberg, Deputy Director NASA Lewis Research Center
		Presentation of Landsat photographs of the "Detroit Area" to City of Detroit, Detroit Public Schools, and Wayne State University
Address	-	Astronaut Jack Lousma, Commander Space Shuttle (STS-3)
Address	-	Astronaut Charles G. Fullerton, Pilot Space Shuttle (STS-3)
4:00 p.m.	-	VIP Reception Refreshments and tour of NASA exhibits
4:30	-	Adjournment

NOTE: VIP Briefing Reception was attended by approximately
150 persons.

After the VIP Briefing Reception, the President of Wayne State University hosted a dinner in honor of NASA for selected persons at his residence.

The Student Program

During the week of May 3-7, students from the Detroit area schools participated in a three hour program on the Wayne State University campus consisting of the following activities: (1) a one hour spacemobile lecture about NASA's space exploration program including a discussion of the space shuttle by NASA astronauts on one of the days; (2) a second hour consisting of a tour of about 25 NASA exhibits; (3) informal talks with NASA engineers, scientists and technicians who answered questions and served as role models; (4) participation in workshop discussions on (a) "Job Opportunities in Aerospace" and (b) "Spinoff Benefits from the Space Program."

Two NASA astronauts participated in the Detroit Space Odyssey. They were Jack Lousma and Charles G. Fullerton, commander and pilot respectively, aboard the third mission of the Space Shuttle (STS-3).

NOTE: The two NASA astronauts were also guests of honor and speakers at the Economic Club of Detroit luncheon on May 3 at Cobo Hall, followed by a Astronaut Press Conference.

The symposium student program outline was as follows (see Appendix B for more detail):

Monday through Friday, May 3-7, 1982, Program for Detroit Area School Students

Morning Program --- 3 groups

<u>Group A</u>	<u>Maximum # of Students</u>
10:00 a.m. Spacemobile Lecture	400
11:00 Job Opportunities in Aerospace (NASA Astronauts)	200
11:30 Benefits from Space	200
12:00 p.m. NASA Exhibits	400
1:00 Adjourn	

<u>Group B</u>	<u>Maximum # of Students</u>
10:00 a.m. NASA Exhibits (NASA Astronauts)	400
11:00 Spacemobile Lecture	400
12:00 p.m. Benefits from Space	200
12:30 Job Opportunities in Aerospace	200
1:00 Adjourn	

<u>Group C</u>	<u>Maximum # of Students</u>
10:00 a.m. Benefits from Space	200
10:30 Job Opportunities in Aerospace	200
11:00 NASA Exhibits	400
12:00 p.m. Spacemobile Lecture (NASA Astronauts)	400
1:00 Adjourn	

Afternoon Program --- 3 groups

<u>Group D</u>		<u>Maximum # of Students</u>
1:00 p.m.	Spacemobile Lecture	400
2:00	Job Opportunities in Aerospace	200
2:30	Benefits from Space	200
3:00	NAS' Exhibits	400
4:00	Adjourn	

<u>Group E</u>		<u>Maximum # of Students</u>
1:00 p.m.	NASA Exhibits	400
2:00	Spacemobile Lecture	400
3:00	Benefits from Space	200
3:30	Job Opportunities in Aerospace	200
4:00	Adjourn	

<u>Group F</u>		<u>Maximum # of Students</u>
1:00 p.m.	Benefits from Space	200
1:30	Job Opportunities in Aerospace	200
2:00	NASA Exhibits	400
3:00	Spacemobile Lecture	400
4:00	Adjourn	

GENERAL PUBLIC PROGRAM

The symposium was open to the general public
on Saturday, May 8 and modified according
to the following agenda

Saturday, May 8, 1982

9:00 a.m.	NASA Films
	NASA Exhibits
	Speakers for Exhibits: Vernon Mays James Travis
10:00	Spacemobile Lecture
	Lecturer: John Hartsfield
11:00	Special Program
	Meal Systems for the Elderly -- Film and Demonstration
	Speaker: Harrison Allen, Jr.
12:00 p.m.	Benefits from Space
	Speaker: Marshall Dietrich
1:00	Spacemobile Lecture
	Lecturer: Ralph Winrich
2:00	Special Program
	Meal Systems for the Elderly -- Film and Demonstration
	Speaker: Harrison Allen, Jr.
3:00	Benefits from Space
	Speaker: Annie Easley
4:00	NASA Films
	NASA Exhibits
	Speakers for Exhibits: Vernon Mays James Travis
5:00	Close

MOVIES, EXHIBITS AND HAND-OUT LITERATURE

The movies shown during the Detroit Space Odyssey were as follows:

"Universe"
"Jupiter Odyssey"
"The House that NASA Built"
"First Flight Report"
(STS-1 Post Flight Conf)

To supplement the symposium the following exhibits were displayed in the Student Center Building: (See Appendix E)

- | | |
|---------------------------------------|---------------------------------------|
| 1. 1/3 Scale Mercury | 14. Equal Opportunity Exhibit No. 5 |
| 2. 1/3 Scale Gemini | 15. Moon Rock |
| 3. 1/3 Scale Apollo | 16. Space Shuttle (diorama) |
| 4. Space Telescope | 17. Apollo Suit Mock-up |
| 5. Health & Medical Benefits | 18. Skylab (diorama) |
| 6. Industrial Benefits | 19. Lunar Exploration (diorama) |
| 7. Home & Personal Benefits | 20. NASA Lewis Energy |
| 8. Portable Food Display | 21. NASA Lewis Goals |
| 9. Moon Geology Display | 22. Spinoff for Sportsmen |
| 10. Solar Power Satellite Display | 23. Black History Month February 1981 |
| 11. Earth Resources Panel Display | 24. Complex Coordinator |
| 12. 1/50 Scale Rotating Space Shuttle | 25. Technology Transfer |
| 13. Landsat Mosaic of U.S. | |

NOTE: After the Detroit Space Odyssey program at Wayne State University, May 3-8, 1982, the majority of the NASA exhibits were displayed at the Historic Fort Wayne Museum from May 15 until June 27, 1982.

The 12,000 pieces of NASA literature that were handed out during the symposium are listed in Appendix F.

Concluding Remarks

The statistical results of the Detroit Space Odyssey were as follows

1. Approximately 150 persons attended the VIP Briefing Reception on May 2, 1982.
2. 5500 students attended the program from 80 schools (including elementary, junior and senior high students from public, private and parochial schools) on May 3-7, 1982, along with teachers, principals and administrators.
3. The Saturday, May 8 program that was open to the general public drew an attendance of about 500.
4. Articles about the program appeared in the Detroit News, Detroit Free Press and Windsor Star as well as suburban (weekly) newspapers.
5. There was also radio and TV coverage of the program.
6. Astronauts Jack Lousma and Charles Fullerton participated in the Detroit Space Odyssey on May 2-3, 1982.

In summary, the symposium was a great success in qualitative and quantitative terms. The students responded with enthusiasm to the NASA exhibits and excellent presentations of the NASA professional staff. It is hoped that the high level of enthusiasm for this special program will be evident in the students' future classroom and educational activities.

Appendix A

Detroit Space Odyssey Literature

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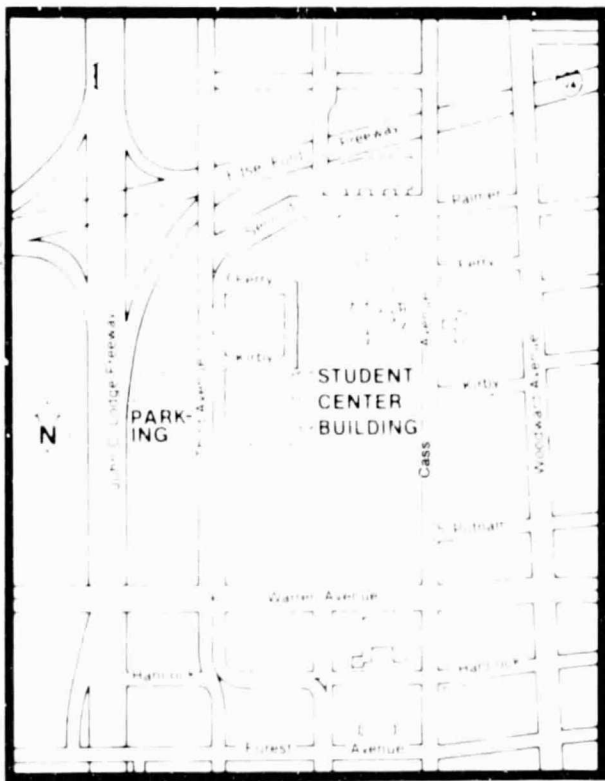
Location

The Student Center Building, 5221 Gullen Mall, is located one block east of Third Avenue (Anthony Wayne Drive) between Warren and Kirby.

Parking Information

Buses: Specific directions will be mailed as reservations are received.

Cars: Convenient parking is located in Lot 3 in front of the Parking Structure located west of Third Avenue (Anthony Wayne Drive) between Warren and Kirby. All-day fee is 75¢.



Wayne State University
48106

Detroit Space Odyssey



Wayne State University
Student Center Building
5221 Gullen Mall
May 3-8, 1982

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DETROIT SPACE ODYSSEY is a one-week aerospace education project sponsored jointly by Wayne State University, the Lewis Research Center of the National Aeronautics and Space Administration (NASA), the Detroit Public Schools, and the City of Detroit. The purpose of the **DETROIT SPACE ODYSSEY** is to provide Detroit area students, their teachers, and the general public an opportunity to learn more about scientific and aerospace technology and its application for improving our way of life.

DETROIT SPACE ODYSSEY is an exhibition and discussion series designed

- To explain the activities of NASA and to tell why continued research in aeronautics and astronautics (space) is important
- To explore academic and employment opportunities
- To demonstrate aerospace technology advances and potential applications to our everyday lives

School & Group Reservations

Admission is free; however, space is limited. Reservations for groups of 10 or more *must* be made according to the following schedule:

Monday, May 3, through Friday, May 7, 1982

10:00 a.m.-1:00 p.m.

Detroit Middle Schools—Reservations must be made through Region Curriculum Administrators. (Free bus service is available.) All other schools and grade levels (public, private, and parochial)—Call Karen Salome at 577-2416 or 577-2400.

1:00 p.m.-4:00 p.m.

All schools, all grade levels (public, private, and parochial)—Call Karen Salome at 577-2416 or 577-2400.

General Public

The general public and school groups of less than 10 are invited to attend the "Odyssey," Monday through Friday during the afternoon hours and on Saturday, May 8, from 9:00 a.m. to 5:00 p.m. Admission is free.

Program

Groups of students from Detroit area schools will spend a half day on the Wayne State University campus. The students will be free to participate in a host of activities including

- A voyage through a variety of special exhibits designed by NASA specialists:

Moon Rock
Space Telescope
Astronaut Food Display
Mercury, Gemini, and Apollo Capsules
Skylab
Apollo Suit Mockup
Lunar Exploration
Space Shuttle
Astronaut Training Apparatus
Equal Opportunity Display
Health and Medical Benefits
NASA Lewis Research Center Goals Display
and many, many others

- Talking with astronauts, engineers, and scientists

- Talks on job opportunities and the benefits of space

- Introduction to potential role models and talks with university student members of the American Institute of Aeronautics and Astronautics who have chosen academic studies in aeronautics

**It's part of your life and
the key to our future**



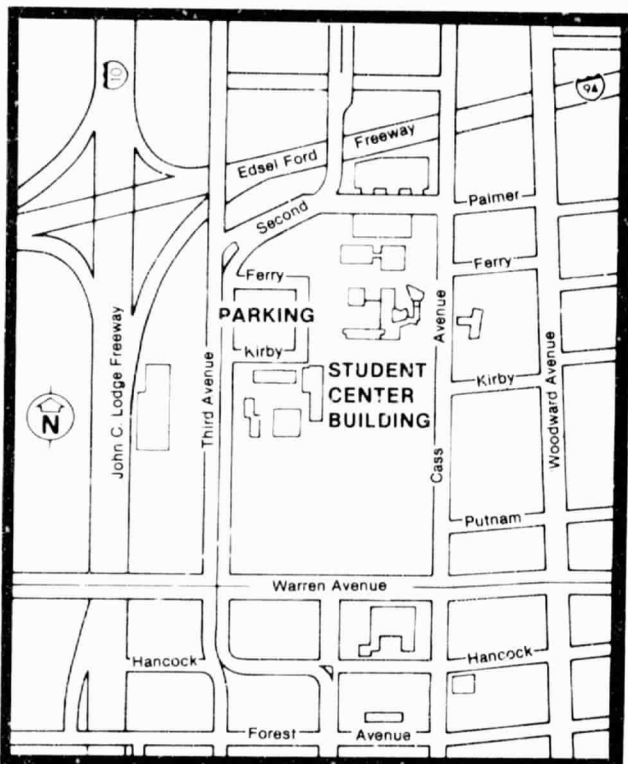
DETROIT

SPACE ODYSSEY

FRIDAY, MAY 3 - SATURDAY, MAY 4

THE STATE UNIVERSITY

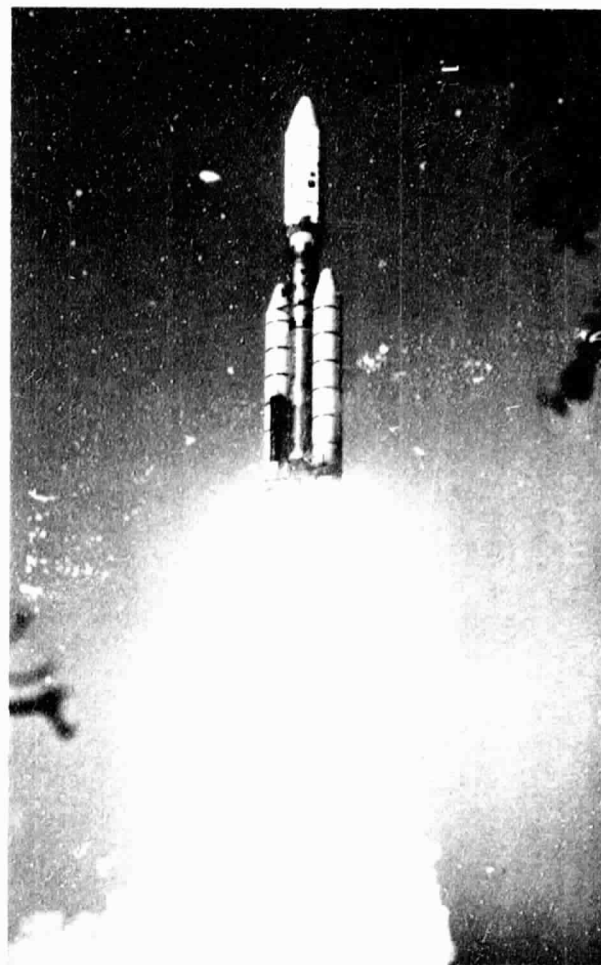
For information, contact Karen Salome



Convenient parking on the north side of the Student Center Building



Wayne State University
Detroit, Michigan 48202



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Detroit Space Odyssey Wayne State University

Detroit Space Odyssey is a one-week aerospace education project sponsored jointly by Wayne State University, the Lewis Research Center of the National Aeronautics and Space Administration (NASA), the Detroit Public Schools, and the City of Detroit. The purpose of the Detroit Space Odyssey is to provide Detroit area students and teachers an opportunity to learn more about scientific and aerospace technology and its application for improving our way of life.

Mayor Coleman A. Young

Dr. Thomas N. Bonner

and

Dr. Arthur Jefferson

Cordially invite you to
a preview of the
Detroit Space Odyssey
Sunday, May 2, 1982
3:00 p.m.

Program followed by reception and viewing of
exhibits

Wayne State University
Student Center Building
5221 Gullen Mall

*Reception courtesy of the Wayne State University Alumni
Association and the College of Education Alumni Association*

Parking Information on reverse side

*R.S.V.P.
Karen Salome
77-2416 or 577-2400*

The Economic Club of Detroit

920 Free Press Building, Detroit, Michigan 48226

**SPACE SHUTTLE PILOTS
TO BE SPECIAL GUESTS ON MAY 3**

As you have read in your weekly Economic Club notice, Patricia T. Carbine, head of The Advertising Council, will be our speaker on Monday, May 3, at Cobo Hall.

An added feature of that meeting, just arranged by Wayne State University, will be the appearance of two very special guests, the astronauts who piloted the space shuttle Columbia on its most recent voyage in outer space —

JACK LOUSMA and GORDON FULLERTON

MEET THEM BOTH AT NOON MONDAY, MAY 3, AT COBO HALL.

Appendix B

Schedule of Events for Detroit Space Odyssey

Agenda for Students Program

Monday May 3, 1982

Morning Program for students -- 3 groups

<u>Group A</u>		<u># of Students</u>
10:00 AM	Spacemobile Lecture Lecturer: John Hartsfield	400
11:00 & 11:30	Job Opportunities in Aerospace Speaker: JoAnn Charleston	200
	Astronauts: Jack Lousma Charles Fullerton	
11:00 & 11:30	Benefits from Space Speaker: Annie Easley	200
12:00 PM	NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
1:00	Adjourn	

<u>Group B</u>		<u># of Students</u>
10:00 AM	NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis Astronauts: Jack Lousma Charles Fullerton	400
11:00	Spacemobile Lecture Lecturer: Ralph Winrich	400
12:00 PM & 12:30	Benefits from Space Speaker: Marshall Dietrich	200
12:00 & 12:30	Job Opportunities in Aerospace Speaker: Al Johns	200
1:00	Adjourn	



C



Monday Afternoon (cont'd)

<u>Group E</u>		<u># of Students</u>
1:00 PM	NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
2:00	Spacemobile Lecture Lecturer: John Hartsfield	400
3:00 & 3:30	Benefits from Space Speaker: Annie Easley	200
3:00 & 3:30	Job Opportunities in Aerospace Speaker: JoAnn Charleston	200
4:00	Adjourn	

<u>Group F</u>		<u># of Students</u>
1:00 PM & 1:30	Benefits from Space Speaker: Annie Easley	200
1:00 & 1:30	Job Opportunities in Aerospace Speaker: JoAnn Charleston	200
2:00	NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
3:00	Spacemobile Lecture Lecturer: Ransom Ritter	400
4:00	Adjourn	

Tuesday May 4, 1982

Morning Program for students -- 3 groups

<u>Group A</u>		<u># of Students</u>
10:00 AM	Spacemobile Lecture Lecturer: John Hartsfield	400
11:00 & 11:30	Job Opportunities in Aerospace Speaker: JoAnn Charleston	200
11:00 & 11:30	Benefits from Space Speaker: Annie Easley	200
12:00 PM	NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
1:00	Adjourn	

<u>Group B</u>		<u># of Students</u>
10:00 AM	NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
11:00	Spacemobile Lecture Lecturer: Ralph Winrich	400
12:00 PM & 12:30	Benefits from Space Speaker: Marshall Dietrich	200
12:00 & 12:30	Job Opportunities in Aerospace Speaker: Al Johns	200
1:00	Adjourn	

Tuesday Morning (cont'd)

<u>Group C</u>	<u># of Students</u>
10:00 AM Benefits from Space & Speaker: Marshall Dietrich 10:30	200
10:00 Job Opportunities in Aerospace & Speaker: Al Johns 10:30	200
11:00 NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
12:00 PM Spacemobile Lecture Lecturer: Ransom Ritter	400
1:00 Adjourn	

Tuesday May 4, 1982

Afternoon Program for students and general public -- 3 groups

<u>Group D</u>	<u># of Students</u>
1:00 PM Spacemobile Lecture Lecturer: Ralph Winrich	400
2:00 Job Opportunities in Aerospace & Speaker: Al Johns 2:30	200
2:00 Benefits from Space & Speaker: Marshall Dietrich 2:30	200
3:00 NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
4:00 Adjourn	

Tuesday Afternoon (cont'd)

<u>Group E</u>	<u># of Students</u>
1:00 PM NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
2:00 Spacemobile Lecture Lecturer: John Hartsfield	400
3:00 Benefits from Space & 3:30 Speaker: Annie Easley	200
3:00 Job Opportunities in Aerospace & 3:30 Speaker: JoAnn Charleston	200
4:00 Adjourn	

<u>Group F</u>	<u># of Students</u>
1:00 PM Benefits from Space & 1:30 Speaker: Annie Easley	200
1:00 Job Opportunities in Aerospace & 1:30 Speaker: JoAnn Charleston	200
2:00 NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
3:00 Spacemobile Lecture Lecturer: Ransom Ritter	400
4:00 Adjourn	

Wednesday May 5, 1982

Morning Program for students -- 3 groups

<u>Group A</u>	<u># of Students</u>
10:00 AM Spacemobile Lecture Lecturer: John Hartsfield	400
11:00 Job Opportunities in Aerospace & Speaker: JoAnn Charleston 11:30	200
11:00 Benefits from Space & Speaker: Annie Easley 11:30	200
12:00 PM NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
1:00 Adjourn	

<u>Group B</u>	<u># of Students</u>
10:00 AM NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
11:00 Spacemobile Lecture Lecturer: Ralph Winrich	400
12:00 PM Benefits from Space & Speaker: Marshall Dietrich 12:30	200
12:00 Job Opportunities in Aerospace & Speaker: Al Johns 12:30	200
1:00 Adjourn	

Wednesday Morning (cont'd)

<u>Group C</u>		<u># of Students</u>
10:00 AM & 10:30	Benefits from Space Speaker: Marshall Dietrich	200
10:00 & 10:30	Job Opportunities in Aerospace Speaker: Al Johns	200
11:00	NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
12:00 PM	Spacemobile Lecture Lecturer: Ransom Ritter	400
1:00	Adjourn	

Wednesday May 5, 1982

Afternoon Program for students and general public -- 3 groups

<u>Group D</u>		<u># of Students</u>
1:00 PM	Spacemobile Lecture Lecturer: Ralph Winrich	400
2:00 & 2:30	Job Opportunities in Aerospace Speaker: Al Johns	200
2:00 & 2:30	Benefits from Space Speaker: Marshall Dietrich	200
3:00	NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
4:00	Adjourn	

<u>Group E</u>	<u># of Students</u>
1:00 PM NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
2:00 Spacemobile Lecture Lecturer: John Hartsfield	400
3:00 Benefits from Space & Speaker: Annie Easley	200
3:30	
3:00 Job Opportunities in Aerospace & Speaker: JoAnn Charleston	200
3:30	
4:00 Adjourn	

<u>Group F</u>		<u># of Students</u>
1:00 PM & 1:30	Benefits from Space Speaker: Annie Easley	200
1:00 & 1:30	Job Opportunities in Aerospace Speaker: JoAnn Charleston	200
2:00	NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
3:00	Spacemobile Lecture Lecturer: Ransom Ritter	400
4:00	Adjourn	

Thursday May 6, 1982

Morning Program for students -- 3 groups

<u>Group A</u>	<u># of Students</u>
10:00 AM Spacemobile Lecture Lecturer: John Hartsfield	400
11:00 Job Opportunities in Aerospace & Speaker: JoAnn Charleston 11:30	200
11:00 Benefits from Space & Speaker: Annie Easley 11:30	200
12:00 PM NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
1:00 Adjourn	

<u>Group B</u>	<u># of Students</u>
10:00 AM NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
11:00 Spacemobile Lecture Lecturer: Ralph Winrich	400
12:00 PM Benefits from Space & Speaker: Marshall Dietrich 12:30	200
12:00 Job Opportunities in Aerospace & Speaker: Al Johns 12:30	200
1:00 Adjourn	

Group C

10:00 AM & 10:30	Benefits from Space Speaker: Marshall Dietrich	200
10:00 & 10:30	Job Opportunities in Aerospace Speaker: Al Johns	200
11:00	NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
12:00 PM	Spacemobile Lecture Lecturer: Ransom Ritter	400
1:00	Adjourn	

Afternoon Program for students and general public -- 3 groups

of Students

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Thursday Afternoon (cont'd)

<u>Group E</u>		<u># of Students</u>
1:00 PM	NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
2:00	Spacemobile Lecture Lecturer: John Hartsfield	400
3:00 & 3:30	Benefits from Space Speaker: Annie Easley	200
3:00 & 3:30	Job Opportunities in Aerospace Speaker: JoAnn Charleston	200
4:00	Adjourn	

<u>Group F</u>		<u># of Students</u>
1:00 PM & 1:30	Benefits from Space Speaker: Annie Easley	200
1:00 & 1:30	Job Opportunities in Aerospace Speaker: JoAnn Charleston	200
2:00	NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
3:00	Spacemobile Lecture Lecturer: Ransom Ritter	400
4:00	Adjourn	

Friday May 7, 1982
Morning Program for students -- 3 groups

<u>Group A</u>	<u># of Students</u>
10:00 AM Spacemobile Lecture Lecturer: John Hartsfield	400
11:00 Job Opportunities in Aerospace & Speaker: JoAnn Charleston 11:30	200
11: Benefits from Space & Speaker: Annie Easley 11:30	200
12:00 PM NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
1:00 Adjourn	

<u>Group B</u>	<u># of Students</u>
10:00 AM NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
11:00 Spacemobile Lecture Lecturer: Ralph Winrich	400
12:00 PM Benefits from Space & Speaker: Marshall Dietrich 12:30	200
12:00 Job Opportunities in Aerospace & Speaker: Al Johns 12:30	200
1:00 Adjourn	

Friday Morning (cont'd)

<u>Group C</u>		<u># of Students</u>
10:00 AM & 10:30	Benefits from Space Speaker: Marshall Dietrich	200
10:00 & 10:30	Job Opportunities in Aerospace Speaker: Al Johns	200
11:00	NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
12:00 PM	Spacemobile Lecture Lecturer: Ransom Ritter	400
1:00	Adjourn	

Friday May 7, 1982

Afternoon Program for students and general public -- 3 groups

<u>Group D</u>		<u># of Students</u>
1:00 PM	Spacemobile Lecutre Lecturer: Ralph Winrich	400
2:00 & 2:30	Job Opportunities in Aerospace Speaker: Al Johns	200
2:00 & 2:30	Benefits from Space Speaker: Marshall Dietrich	200
3:00	NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
4:00	Adjourn	

Friday Afternoon (cont'd)

<u>Group E</u>		<u># of Students</u>
1:00 PM	NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
2:00	Spacemobile Lecture Lecturer: John Hartsfield	400
3:00 & 3:30	Benefits from Space Speaker: Annie Easley	200
3:00 & 3:30	Job Opportunities in Aerospace Speaker: JoAnn Charleston	200
4:00	Adjourn	
<u>Group F</u>		<u># of Students</u>
1:00 PM & 1:30	Benefits from Space Speaker: Annie Easley	200
1:00 & 1:30	Job Opportunities in Aerospace Speaker: JoAnn Charleston	200
2:00	NASA Exhibits Speakers for Exhibits 1. Vernon Mays 2. James Travis	400
3:00	Spacemobile Lecture Lecturer: Ransom Ritter	400
4:00	Adjourn	

Agenda for General Public Program

Saturday, May 8, 1982

9:00 AM	NASA Films
	NASA Exhibits
	Speakers for Exhibits: Vernon Mays James Travis
10:00	Spacemobile Lecture
	Lecturer: John Hartsfield
11:00	Special Program
	Meal Systems for the Elderly -- Film and Demonstration
	Speaker: Harrison Allen, Jr.
12:00 PM	Benefits from Space
	Speaker: Marshall Dietrich
1:00	Spacemobile Lecture
	Lecturer: Ralph Winrich
2:00	Special Program
	Meal Systems for the Elderly -- Film and Demonstration
	Spaker: Harrison Allen, Jr.
3:00	Benefits from Space
	Speaker: Annie Easley
4:00	NASA Films
	NASA Exhibits
	Speakers for Exhibits: Vernon Mays James Travis
5:00	Close

Appendix C

Photographs of VIP Briefing "Reception" and
"Dinner" hosted by President of Wayne State University



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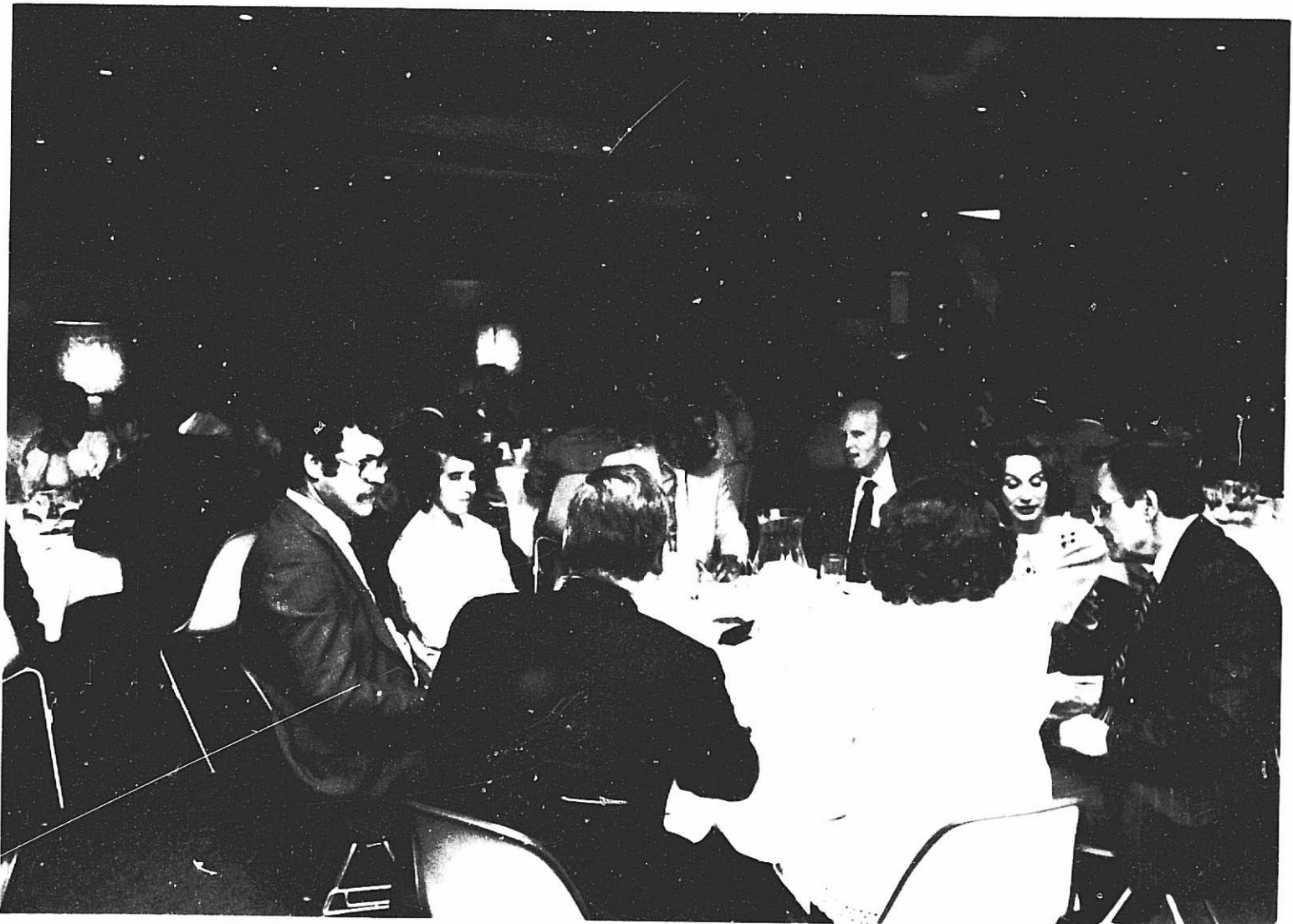
Dr. Thomas Bronner
Wayne State Univ.
Harrison Allen, Jr.
Lewis Research Center

Dr. Arthur Jefferson
Detroit Public Schools
Arthur Johnson
Wayne State Univ.

Astronaut Jack
Lousma
Astronaut Charles G.
Fullerton

Dr. John Klineberg
Lewis Research Center

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Appendix D

Photographs and Biographies of NASA Astronauts

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JACK R. LOUSMA
ASTRONAUT,
SHUTTLE COMMANDER

CHARLES G. FULLERTON
ASTRONAUT,
SHUTTLE PILOT

Biographical Data

NASA

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas 77058

NAME: Jack Robert Lousma (Colonel, USMC) STS-3 Commander
NASA Astronaut

BIRTHPLACE AND DATE: Born February 29, 1936, in Grand Rapids, Michigan. His father, Mr. Jacob Louwsma, resides in Jackson, Michigan.

PHYSICAL DESCRIPTION: Blond hair; blue eyes; height: 6 feet; weight: 195 pounds.

EDUCATION: Attended Tappan Junior High School and Ann Arbor High School in Ann Arbor, Michigan; received a bachelor of science degree in Aeronautical Engineering from the University of Michigan in 1959 and the degree of Aeronautical Engineer from the U.S. Naval Postgraduate School in 1965; presented an honorary doctorate of Astronautical Science from the University of Michigan in 1973.

MARITAL STATUS: Married to the former Gratia Kay Smeltzer of Ann Arbor, Michigan. Her mother, Mrs. Steven Bolling, resides in Bear Lake, Michigan.

CHILDREN: Timothy, December 23, 1963; Matthew O., July 14, 1966; Mary T., September 22, 1968; Joseph L., September 14, 1980.

RECREATIONAL INTERESTS: He is a golfing enthusiast and enjoys hunting and fishing.

ORGANIZATIONS: Fellow of the American Astronautical Society; Member of the Society of the Sigma Xi, the University of Michigan "M" Club, and the Officer's Christian Fellowship.

SPECIAL HONORS: Awarded the Johnson Space Center Certificate of Commendation (1970) and the NASA Distinguished Service Medal (1973); presented the Navy Distinguished Service Medal and the Navy Astronaut Wings (1974), the City of Chicago Gold Medal (1974), the Robert J. Collier Trophy for 1973 (1974), the Marine Corps Aviation Association's Exceptional Achievement Award (1974), the Federation Aeronautique Internationale's V. M. Komarov Diploma for 1973 (1974), the Dr. Robert H. Goddard Memorial Trophy for 1975 (1975), the AIAA Octave Chanute Award for 1975 (1975), the AAS Flight Achievement Award for 1974 (1975).

EXPERIENCE: Lousma was assigned as a reconnaissance pilot with VMJ-2, 2nd Marine Air Wing, at Cherry Point, North Carolina, before coming to Houston and the Lyndon B. Johnson Space Center.

He has been a Marine Corps officer since 1959 and received his wings in 1960 after completing training at the U. S. Naval Air Training Command. He was

-more-

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then assigned to VMA-224, 2nd Marine Air Wing, as an attack pilot and later served with VMA-224, 1st Marine Air Wing, at Iwakuni, Japan.

He has logged 5,400 hours of flight time--3,600 hours in jet aircraft and 240 hours in helicopters.

NASA EXPERIENCE: Colonel Lousma is one of the 19 astronauts selected by NASA in April 1966. He served as a member of the astronaut support crews for the Apollo 9, 10, and 13 missions.

Lousma was pilot for Skylab 3 (SL-3), July 28 to September 25, 1973. With him on this 59-1/2-day flight were Alan L. Bean (spacecraft commander) and Owen K. Garriott (science-pilot). SL-3 accomplished 150% of many mission goals while completing 858 revolutions of the earth and traveling some 24,400,000 miles in earth orbit. The crew installed six replacement rate gyros used for attitude control of the spacecraft and a twin-pole sunshade used for thermal control, and repaired nine major experiment or operational equipment items. They devoted 305 manhours to extensive solar observations from above the earth's atmosphere, which included viewing two major solar flares and numerous smaller flares and coronal transients. Also acquired and returned to earth were 16,000 photographs and 18 miles of magnetic tape documenting earth resources observations. The crew completed 333 medical experiment performances and obtained valuable data on the effects of extended weightlessness on man. Skylab 3 ended with a Pacific splashdown and recovery by the USS NEW ORLEANS.

The crew of Skylab 3 logged 1,427 hours and 9 minutes each, setting a new world record for a single mission, and Lousma also logged 11 hours and 2 minutes in two separate extravehicular activities outside the orbital workshop.

Lousma served as backup docking module pilot of the United States flight crew for the Apollo-Soyuz Test Project (ASTP) mission which was completed successfully in July 1975.

CURRENT ASSIGNMENT: Lousma is commander for the third orbital flight of Columbia

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Biographical Data



Lyndon B. Johnson Space Center
Houston, Texas 77058

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NAME: Charles G. Fullerton (Colonel, USAF) STS-3 Pilot
NASA Astronaut

BIRTHPLACE AND DATE: Born October 11, 1936, in Rochester, New York. His parents, Mr. and Mrs. Charles R. Fullerton, are residents of Salem, Oregon.

PHYSICAL DESCRIPTION: Blond hair; blue eyes; height: 6 feet; weight: 165 pounds.

EDUCATION: Graduated from U. S. Grant High School in Portland, Oregon; received from the California Institute of Technology bachelor of science and master of science degrees in Mechanical Engineering in 1957 and 1958, respectively.

MARITAL STATUS: Married to the former Marie J. Buettner of Delphos, Ohio. Her parents Mr. and Mrs. Everett G. Buettner, reside in Delphos, Ohio.

CHILDREN: Molly Marie, June 29, 1973; Andrew Alexander, October 24, 1975.

RECREATIONAL INTERESTS: His hobbies include woodworking and photography, and he also enjoys tennis and racquetball.

ORGANIZATIONS: Member of the Society of Experimental Test Pilots (SETP) and the Tau Beta Pi; honorary member, National WWII Glider Pilots Association.

SPECIAL HONORS: Presented the Air Force Distinguished Flying Cross, the Air Force Commendation Medal, and the Air Force Meritorious Service Medal; the JSC Group Achievement Award (1971, 1974, 1977); the Soaring Society of America's Certificate of Achievement Award (1978); the JSC Special Achievement Award and NASA's Exceptional Service Medal (1978); the General Thomas D. White Space Trophy for 1977 (1978); the SETP's Iven C. Kincheloe Award (1978); the Air Force Association's David C. Schilling Award (1978); the American Astronautical Society's Flight Achievement Award for 1977 (1978); the American Institute of Aeronautics and Astronautics Haley Flight Award for 1980.

EXPERIENCE: Fullerton entered on active duty with the Air Force in July 1958 after having worked as a mechanical design engineer for the Hughes Aircraft Company in Culver City, California.

He received primary and basic flight training in Bainbridge Air Base, Georgia and Webb Air Force Base, Texas. In September 1959, he went to Perrin Air Force Base, Texas, for F-86 fighter interceptor training and was then assigned from May to December 1960 at McConnell Air Force Base, Kansas, for B-47 combat crew training. Following completion of this training, he served as a B-47 jet bomber pilot with Strategic Air Command's 303d Bomb Wing at Davis Monthan Air Force Base, Arizona.

After graduation in May 1965 from the USAF Aerospace Research Pilot School at Edwards Air Force Base, California, he reported to the Aeronautical Systems Division at Wright-Patterson Air Force Base, Ohio. He was a test pilot for the bomber operations division at Wright-Patterson when notified of his selection to the USAF Manned Orbiting Laboratory Program as a flight crew member.

-more-

With over 9,000 hours jet flying time, he has gained proficiency in the following aircraft: T-33, T-34, T-37, T-38, T-39, F-86, F-104, F-106, B-47, and KC-135.

NASA EXPERIENCE. Colonel Fullerton became a NASA astronaut in September 1969. He served as a member of the astronaut support crews for the Apollo 14 and 17 missions.

Fullerton was a member of one of the two 2-man crews who piloted space shuttle approach and landing test (ALT) flights during the period June through October 1977. This series of critical orbiter flight tests involved initially Boeing 747/orbiter captive-active flights, followed by air-launched, unpowered glide, approach, and landing tests (free flights). There were 3 captive mated tests with the orbiter "Enterprise" carried atop the Boeing 747 carrier aircraft, allowing inflight test and checkout of flight controls and orbiter subsystems, and 5 free flights which permitted extensive evaluations of the orbiter's subsonic flying qualities and performance characteristics during separation, up and away flight, flare, landing, and rollout--providing valuable real-time data duplicating the last few minutes of an operational shuttle mission.

CURRENT ASSIGNMENT: Colonel Fullerton is pilot for the third orbital flight of Columbia.

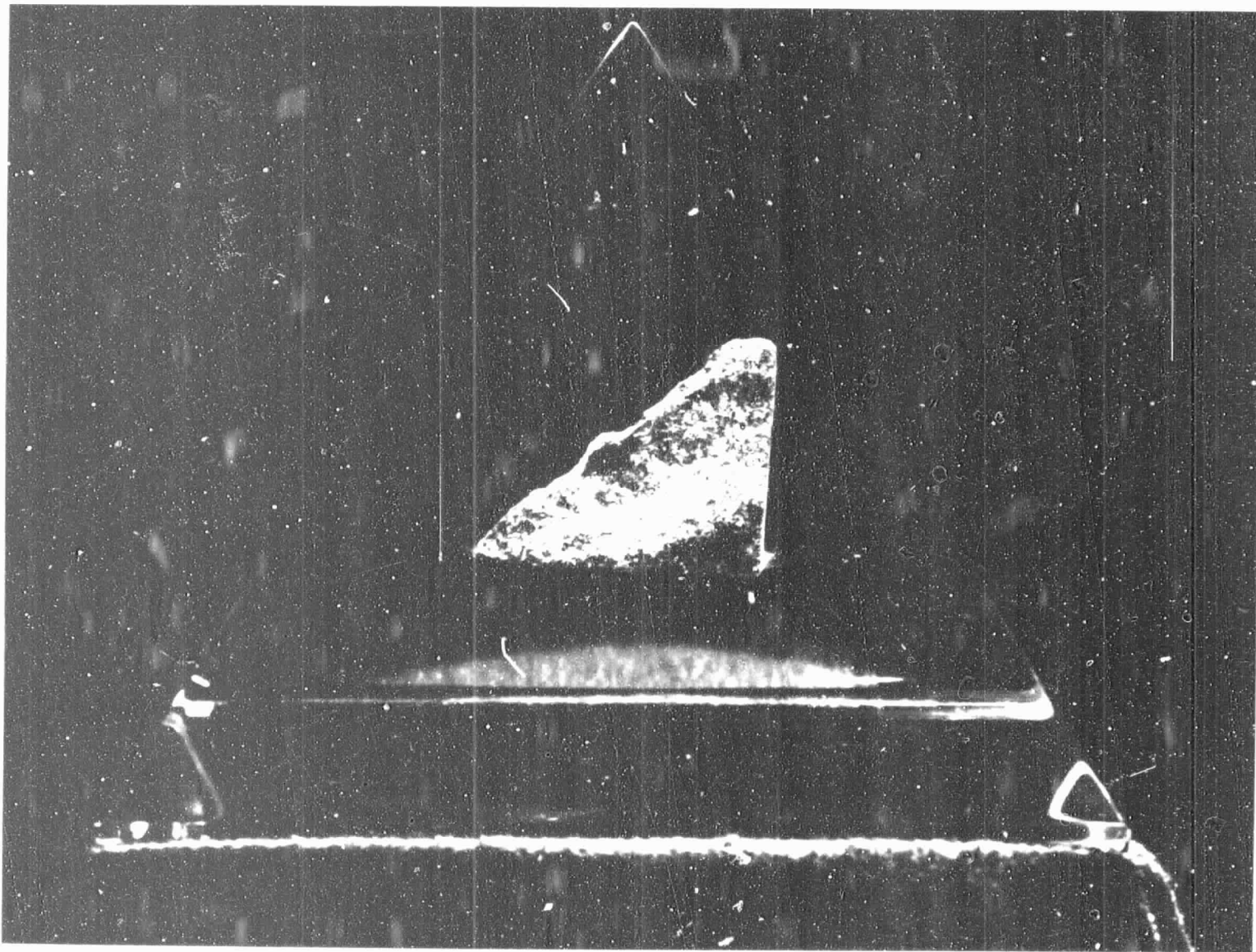
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Appendix E

Photographs of Exhibits

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MOON ROCK DISPLAY
(Lunar Sample No. 15,058,192 (026) collected by Apollo 15)

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LUNAR EXPLORATION

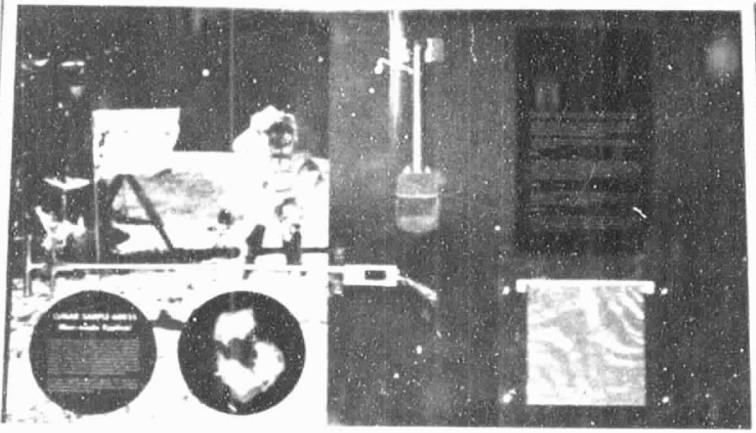
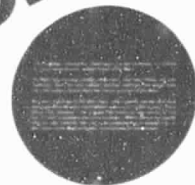


On July 20, 1969, Apollo 11 commander, Neil Armstrong, set foot on the Moon, becoming the first man to walk on another celestial body. His 21-minute, 36-second walk was the first step in a series of events that would lead to the first human landing on the Moon. The Apollo 11 mission was the first of a series of missions that would lead to the first human landing on the Moon. The Apollo 11 mission was the first of a series of missions that would lead to the first human landing on the Moon.



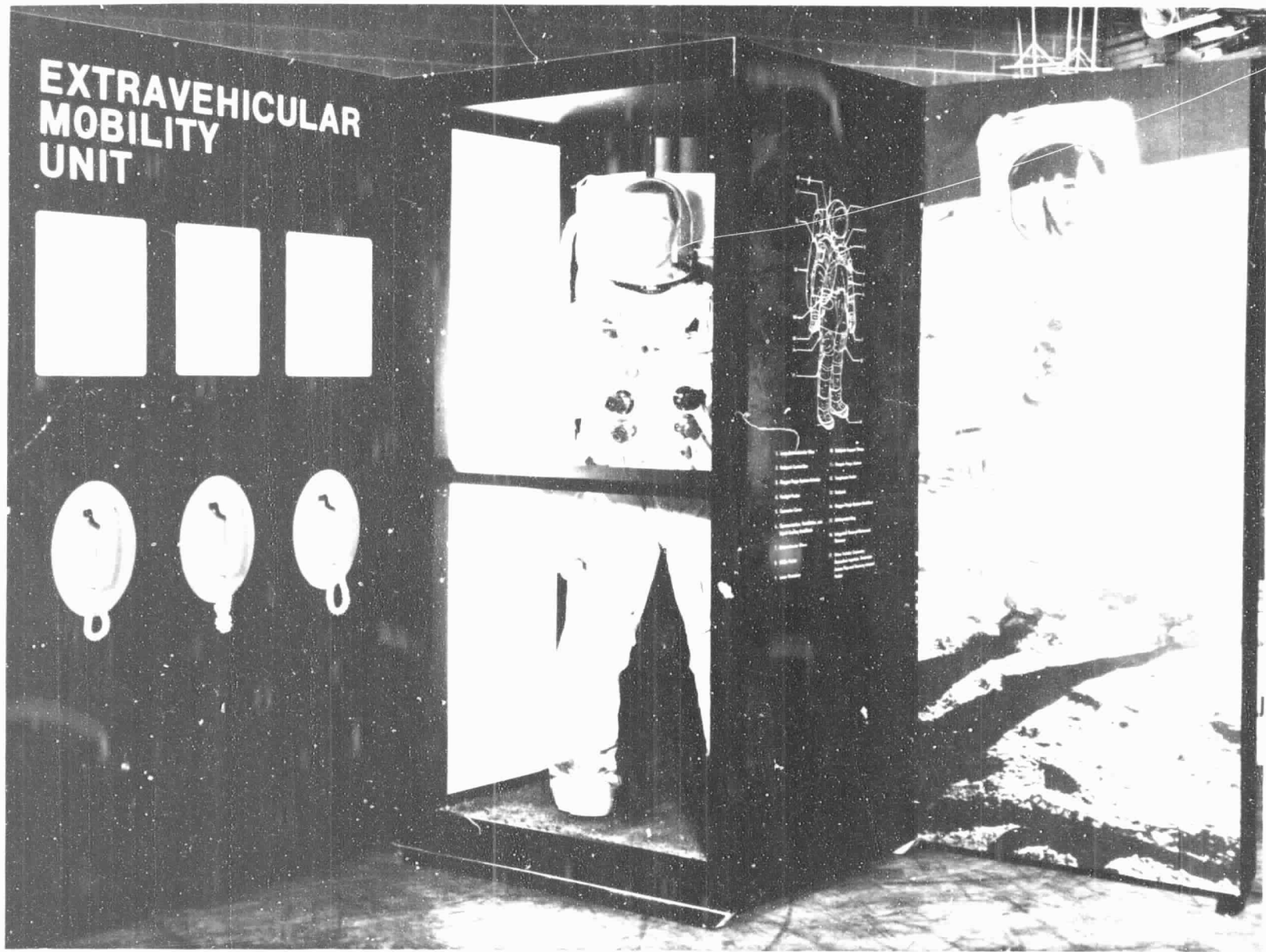
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MOON geology

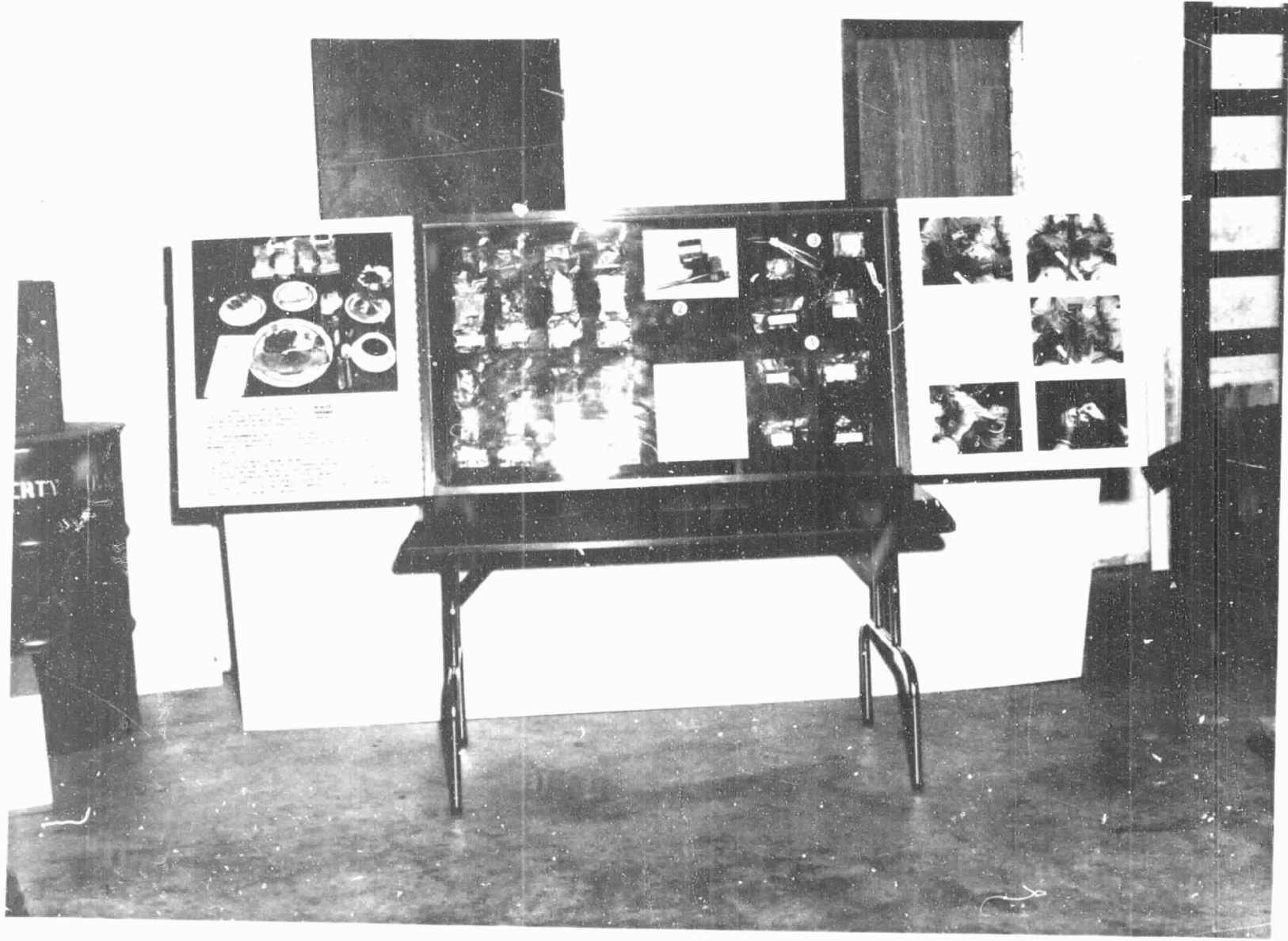


some
findings
about the
Moon

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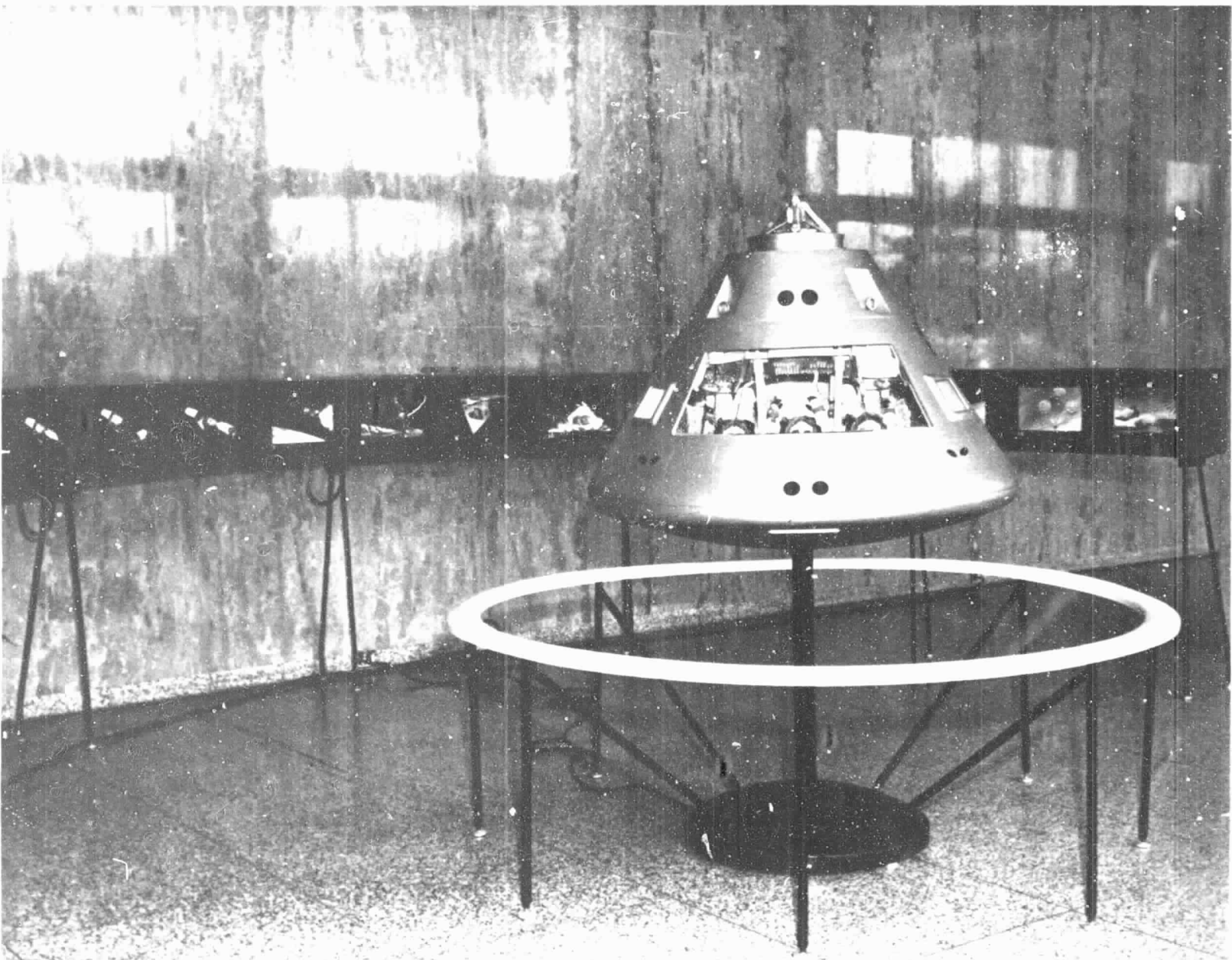


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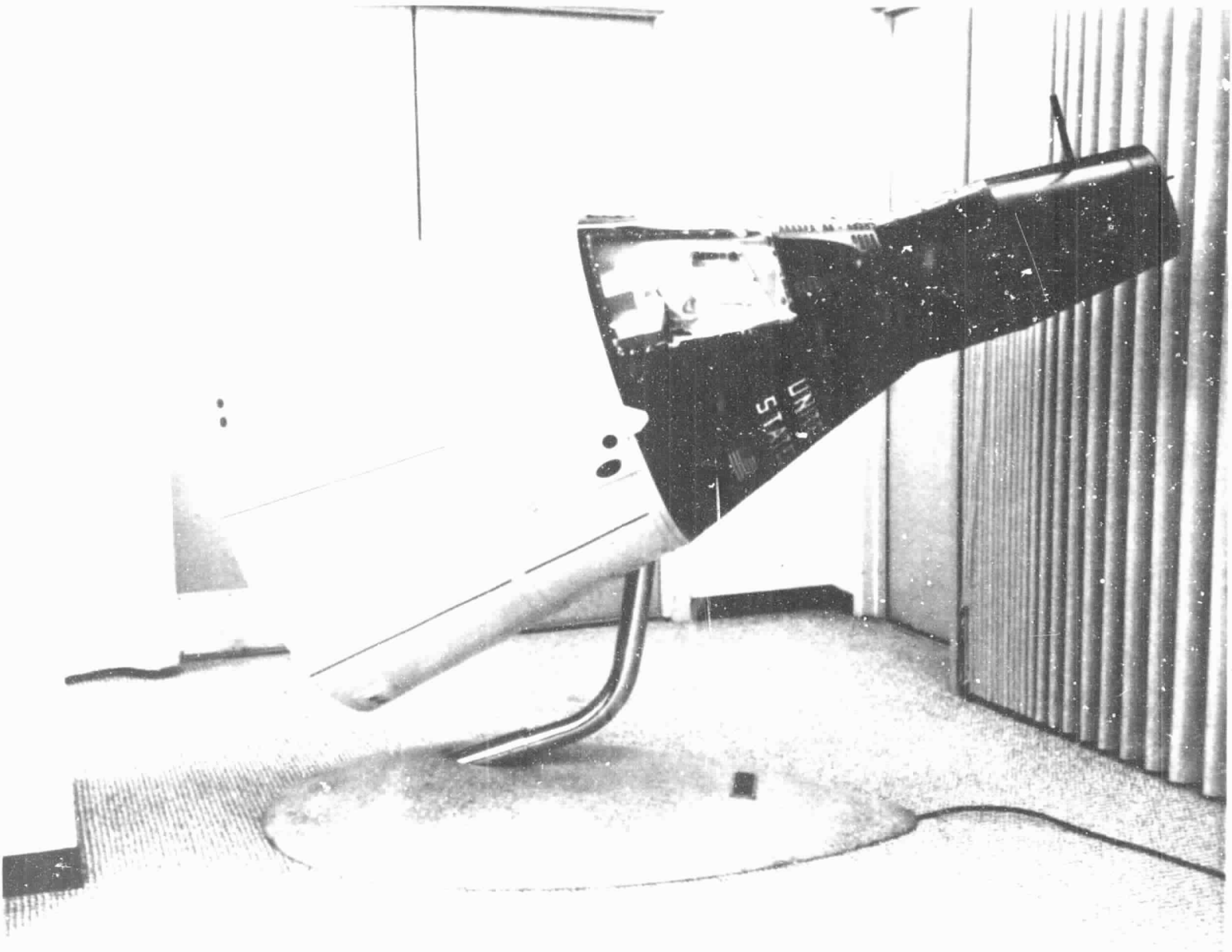


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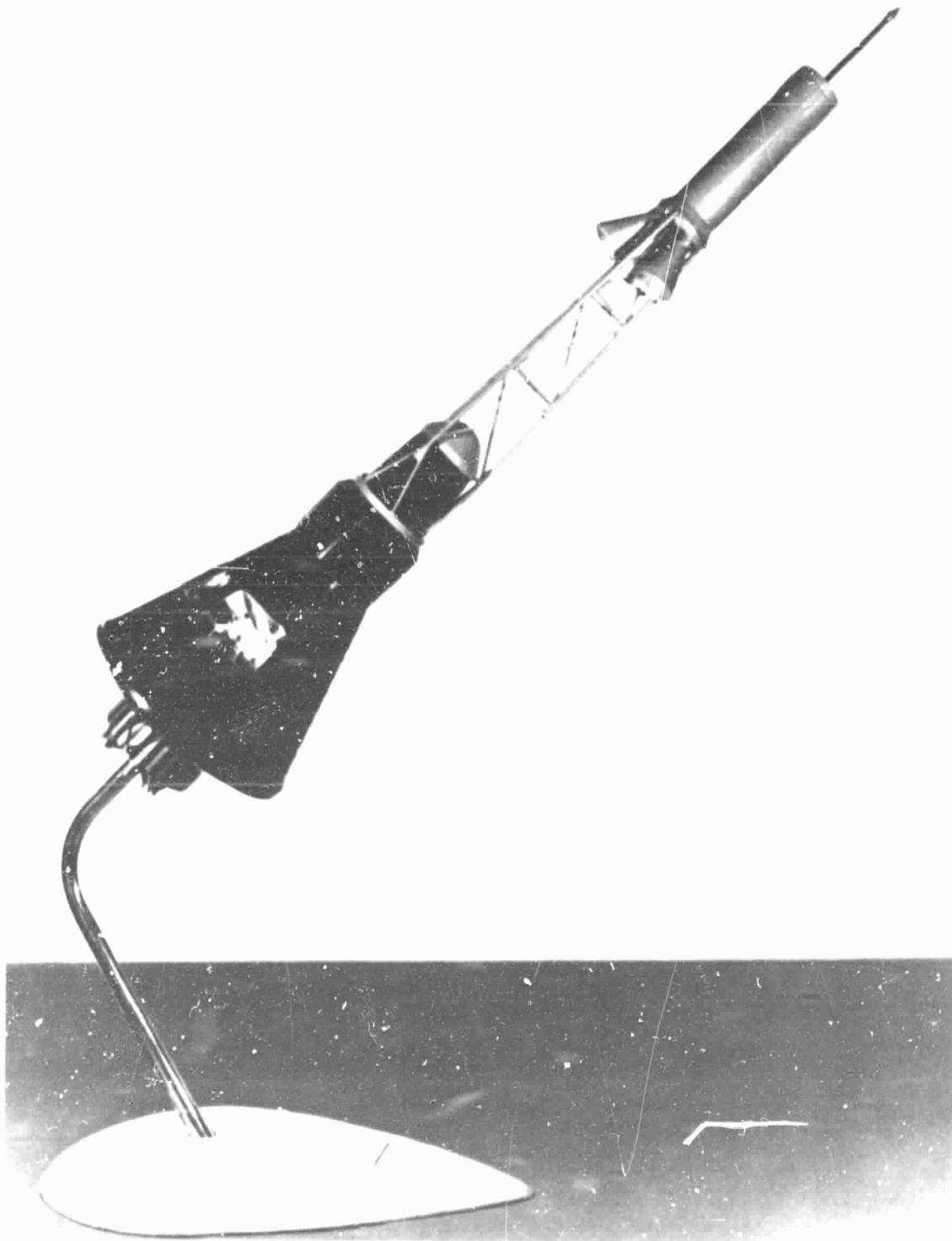
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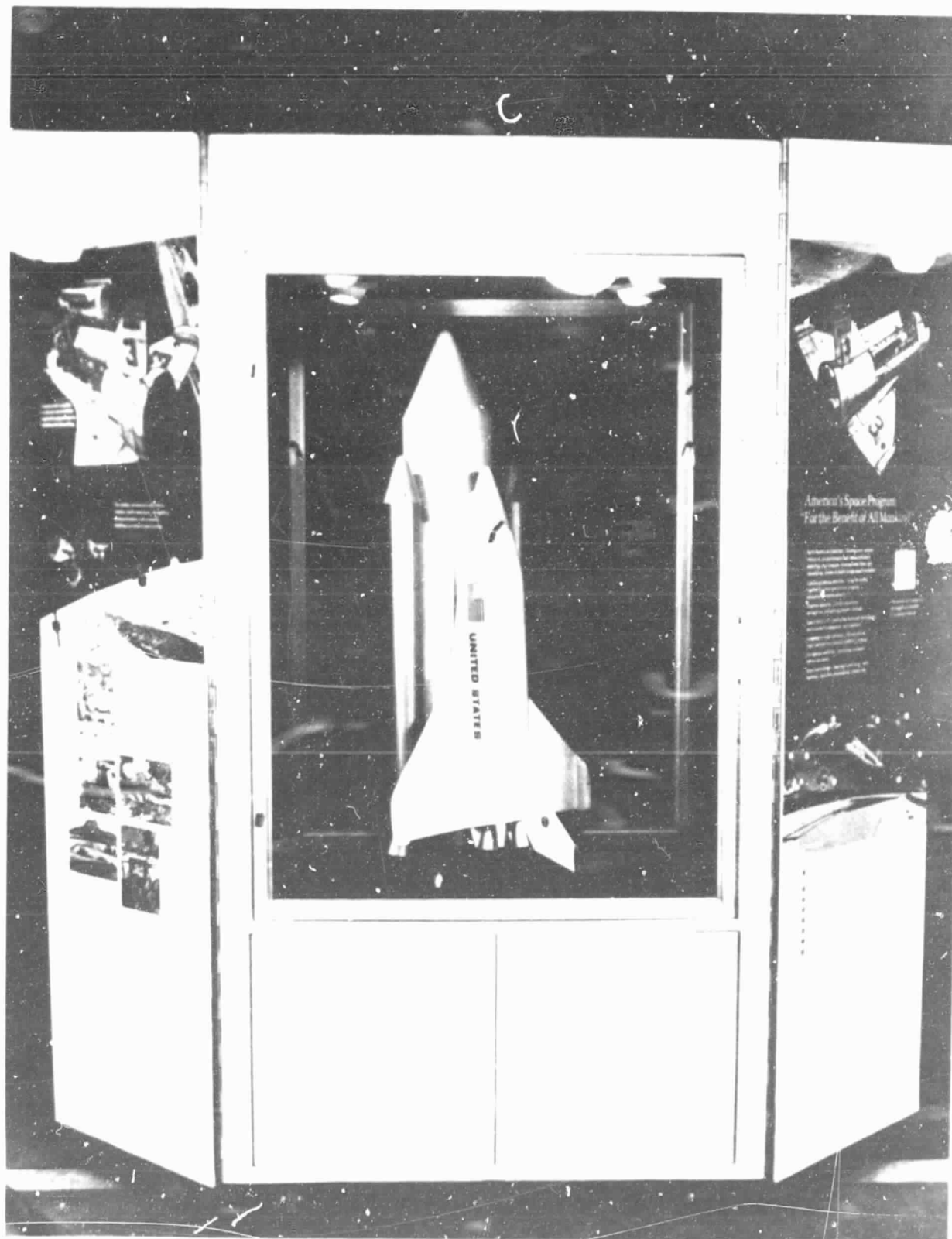


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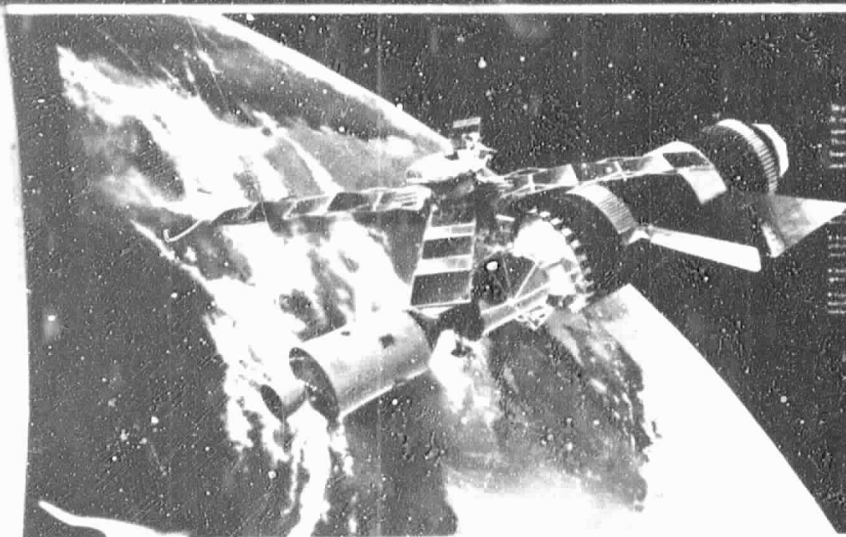




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SKYLAB



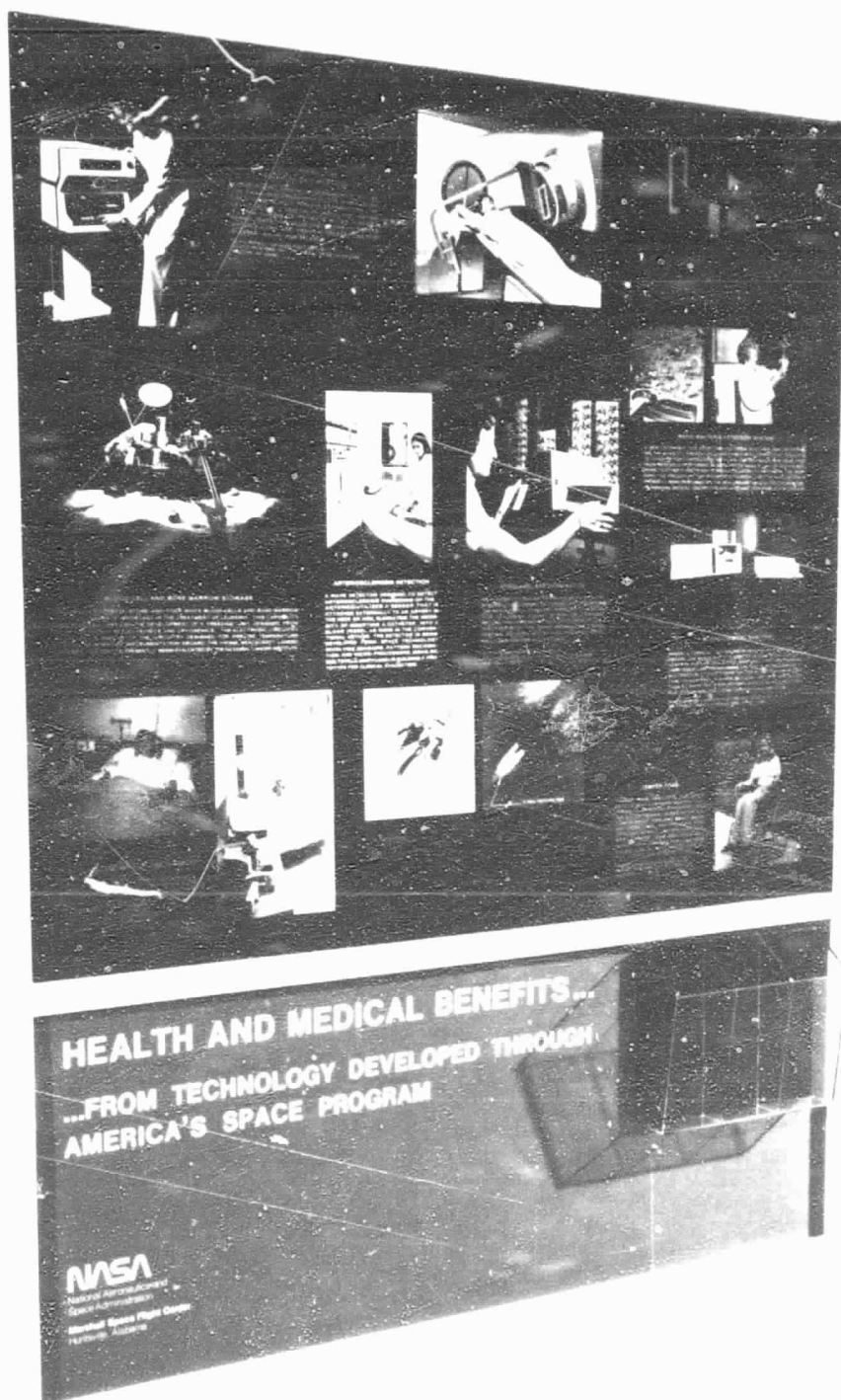
Skylab was the first American space station. It consisted of a modified version of the Saturn V launch vehicle, which was launched in May 1973. The station was in orbit for 28 days, during which time three astronauts lived and worked. Skylab was the first of a series of space stations planned by NASA.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

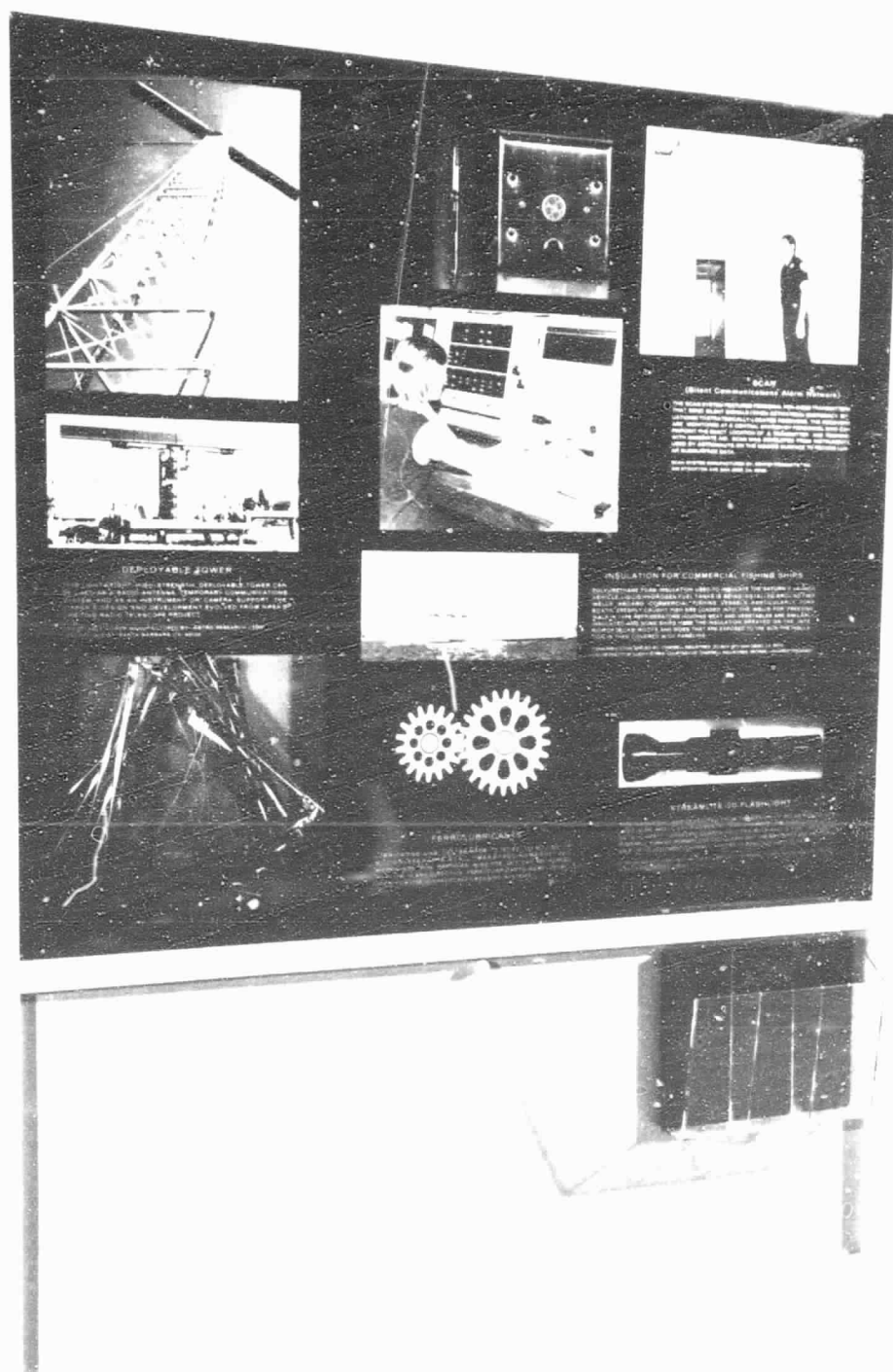
A collage of smaller images and text blocks related to the Skylab mission. It includes a photograph of the station being launched, a diagram of the station's components, and several smaller photographs showing the station in orbit and the Earth from space. Text blocks provide additional information about the mission and the station's capabilities.

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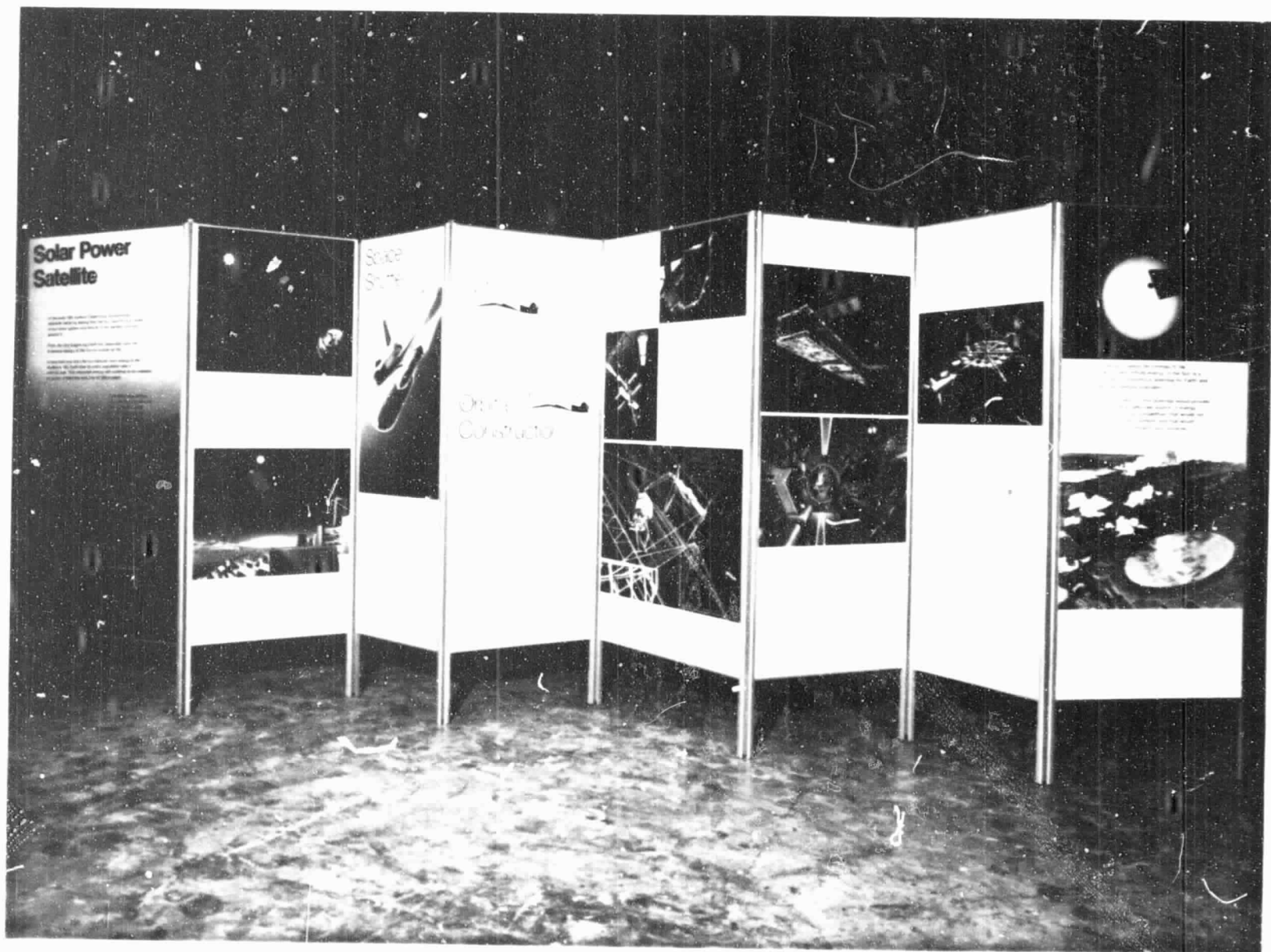
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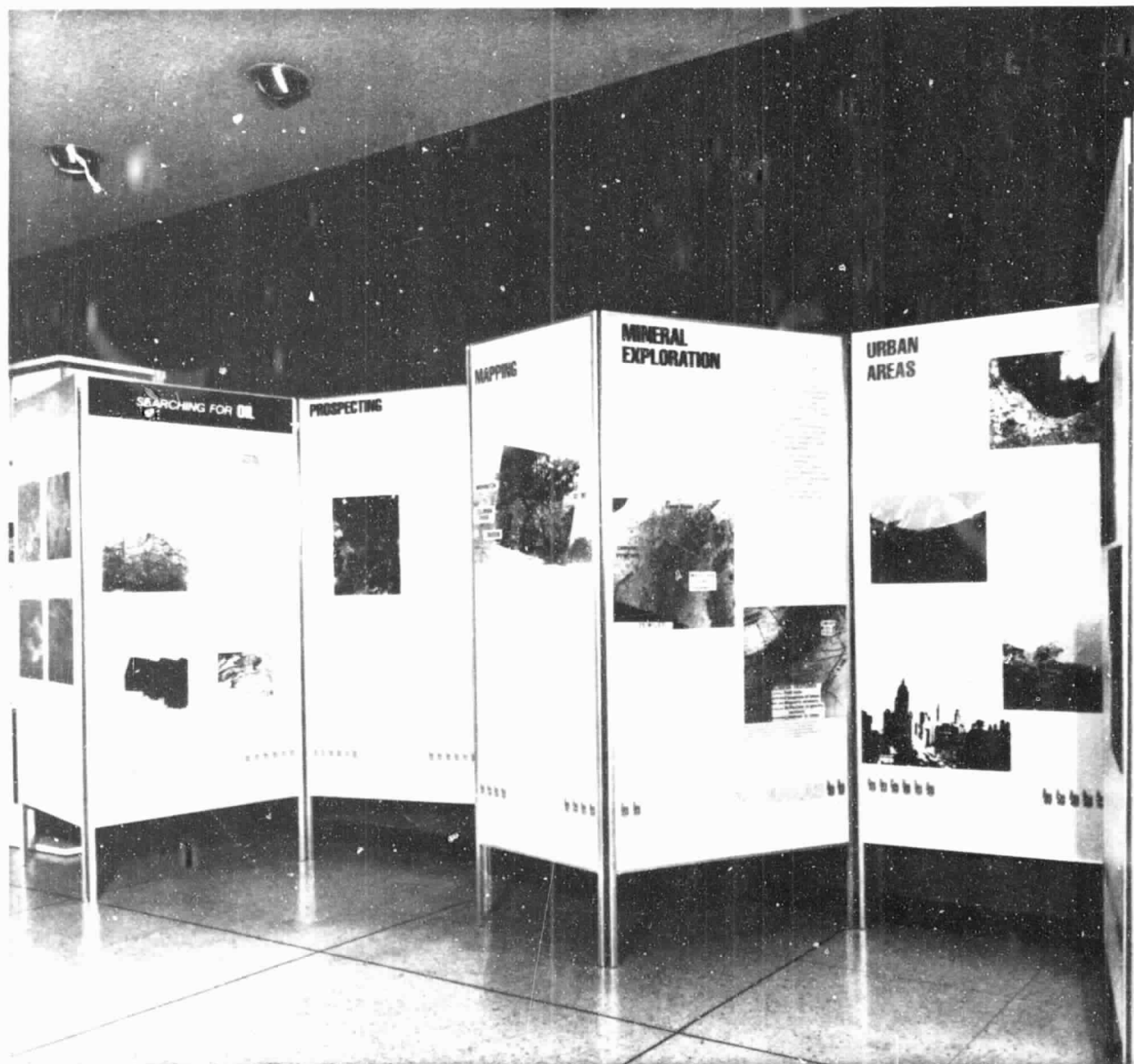




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NASA

National Aeronautics and
Space Administration

EQUAL OPPORTUNITY

AERONAUTICS and SPACE
ARE YOUR BUSINESS

NASAS Work works for You.



Youth needs Space.
Space needs Youth.



The Space Race is the Human Race.



NASA People
are all People.



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BLACK HISTORY MONTH FEBRUARY 1981

In observance of Black History Month, the Lewis Center is featuring the following minorities and the wide-ranging and important functions they perform in support of the agency's overall mission.



LOUIS M. RUSSELL

Mr. Russell is a member of the Lewis Center's staff and is responsible for the coordination of the agency's Black History Month activities.



BETTY J. SMITH

Ms. Smith is a member of the Lewis Center's staff and is responsible for the coordination of the agency's Black History Month activities.



JESSE L. STRICKLAND

Mr. Strickland is a member of the Lewis Center's staff and is responsible for the coordination of the agency's Black History Month activities.



MARGARET WILKINS

Ms. Wilkins is a member of the Lewis Center's staff and is responsible for the coordination of the agency's Black History Month activities.



LEONARD W. COBBS

Mr. Cobbs is a member of the Lewis Center's staff and is responsible for the coordination of the agency's Black History Month activities.



LEONARD W. COBBS

BLACK HISTORY MONTH FEBRUARY 1981

In observance of Black History Month, the Lewis Center is featuring the following minorities and the wide ranging and important functions they perform in support of the agency's overall mission.



LONNIE REID

Senior Mechanical Engineer, Division of the Lewis Center, is responsible for the design and development of the propulsion system for the Space Shuttle. He is also responsible for the design and development of the propulsion system for the Space Shuttle.



DALLAS LAUDERDALE JR.

Senior Mechanical Engineer, Division of the Lewis Center, is responsible for the design and development of the propulsion system for the Space Shuttle. He is also responsible for the design and development of the propulsion system for the Space Shuttle.



SHIFFRILL K. WHITE

Senior Mechanical Engineer, Division of the Lewis Center, is responsible for the design and development of the propulsion system for the Space Shuttle. He is also responsible for the design and development of the propulsion system for the Space Shuttle.



JOHN DICKSON

Senior Mechanical Engineer, Division of the Lewis Center, is responsible for the design and development of the propulsion system for the Space Shuttle. He is also responsible for the design and development of the propulsion system for the Space Shuttle.



MAURY L. BLANTON

Senior Mechanical Engineer, Division of the Lewis Center, is responsible for the design and development of the propulsion system for the Space Shuttle. He is also responsible for the design and development of the propulsion system for the Space Shuttle.



JAMES F. TRAVIS JR.

BLACK HISTORY MONTH FEBRUARY 1981

In observance of Black History Month the Lewis Center is featuring the following minorities and the wide ranging and important functions they perform in support of the agency's overall mission.



NORMAN T. GRIER

Mr. Grier is a Senior Engineer and Facilities Director. He is currently responsible for managing the construction of high voltage test areas with special emphasis on safety. He was the principal investigator of the Federal Energy Research Laboratory's study on the effects of high voltage electric fields on biological organisms. He is also a member of the American Nuclear Society.



JAMES R. DAVIS

Mr. Davis is a Senior Engineer in the Facilities Engineering Division. He is currently managing the construction of high voltage test areas with special emphasis on safety. He was the principal investigator of the Federal Energy Research Laboratory's study on the effects of high voltage electric fields on biological organisms. He is also a member of the American Nuclear Society.



JUANITA R. HOLT

Ms. Holt is a Supervisor in the Facilities Management Division. She is currently managing the construction of high voltage test areas with special emphasis on safety. She was the principal investigator of the Federal Energy Research Laboratory's study on the effects of high voltage electric fields on biological organisms. She is also a member of the American Nuclear Society.



JOSEPH L. JOYCE

Mr. Joyce is a Senior Engineer in the Facilities Engineering Division. He is currently managing the construction of high voltage test areas with special emphasis on safety. He was the principal investigator of the Federal Energy Research Laboratory's study on the effects of high voltage electric fields on biological organisms. He is also a member of the American Nuclear Society.



OTIS C. WOODEN

Mr. Wooden is a Senior Engineer in the Facilities Engineering Division. He is currently managing the construction of high voltage test areas with special emphasis on safety. He was the principal investigator of the Federal Energy Research Laboratory's study on the effects of high voltage electric fields on biological organisms. He is also a member of the American Nuclear Society.



DR. ALBERT J. ANTOINE



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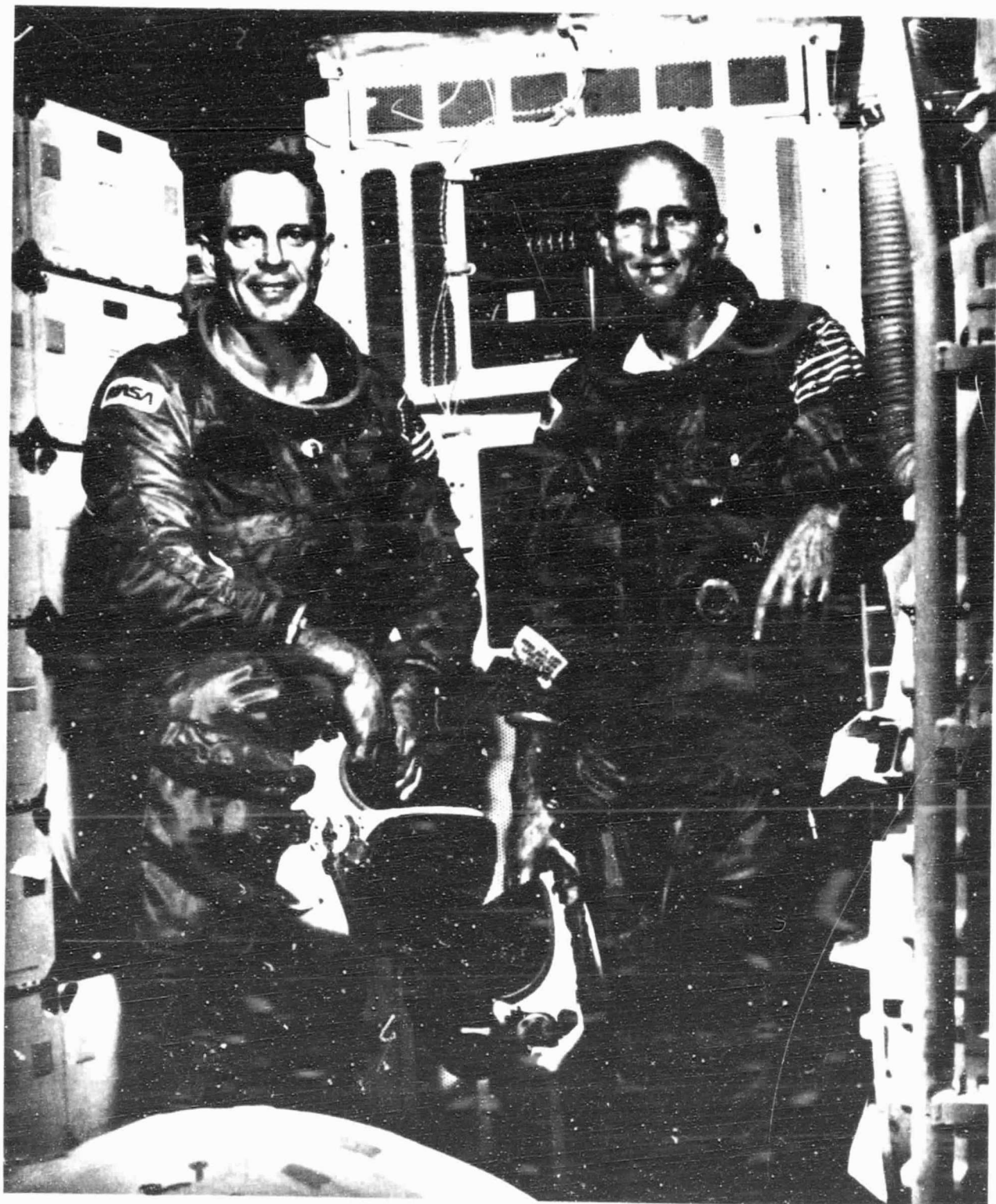
Appendix F

Listing of Hand-out Literature

1. Photographs of Astronauts Jack
Lousma and Charles Fullerton
2. NASA Facts (NF-127/3-81)
"The Shuttle Era"
3. Careers - Detroit Michigan
and NASA

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JACK R. LOUSMA
ASTRONAUT,
SHUTTLE COMMANDER

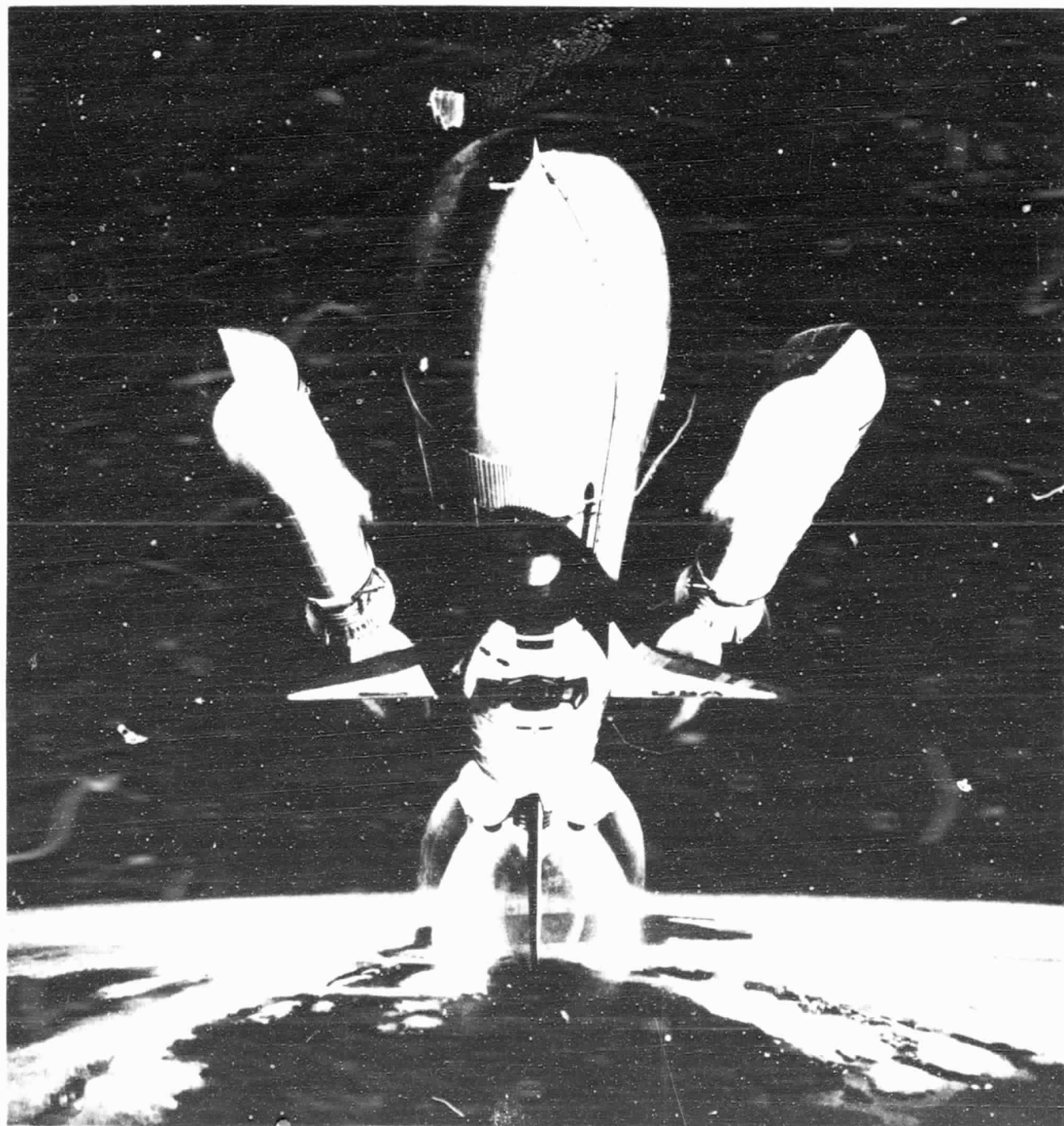
CHARLES G. FULLERTON
ASTRONAUT,
SHUTTLE PILOT

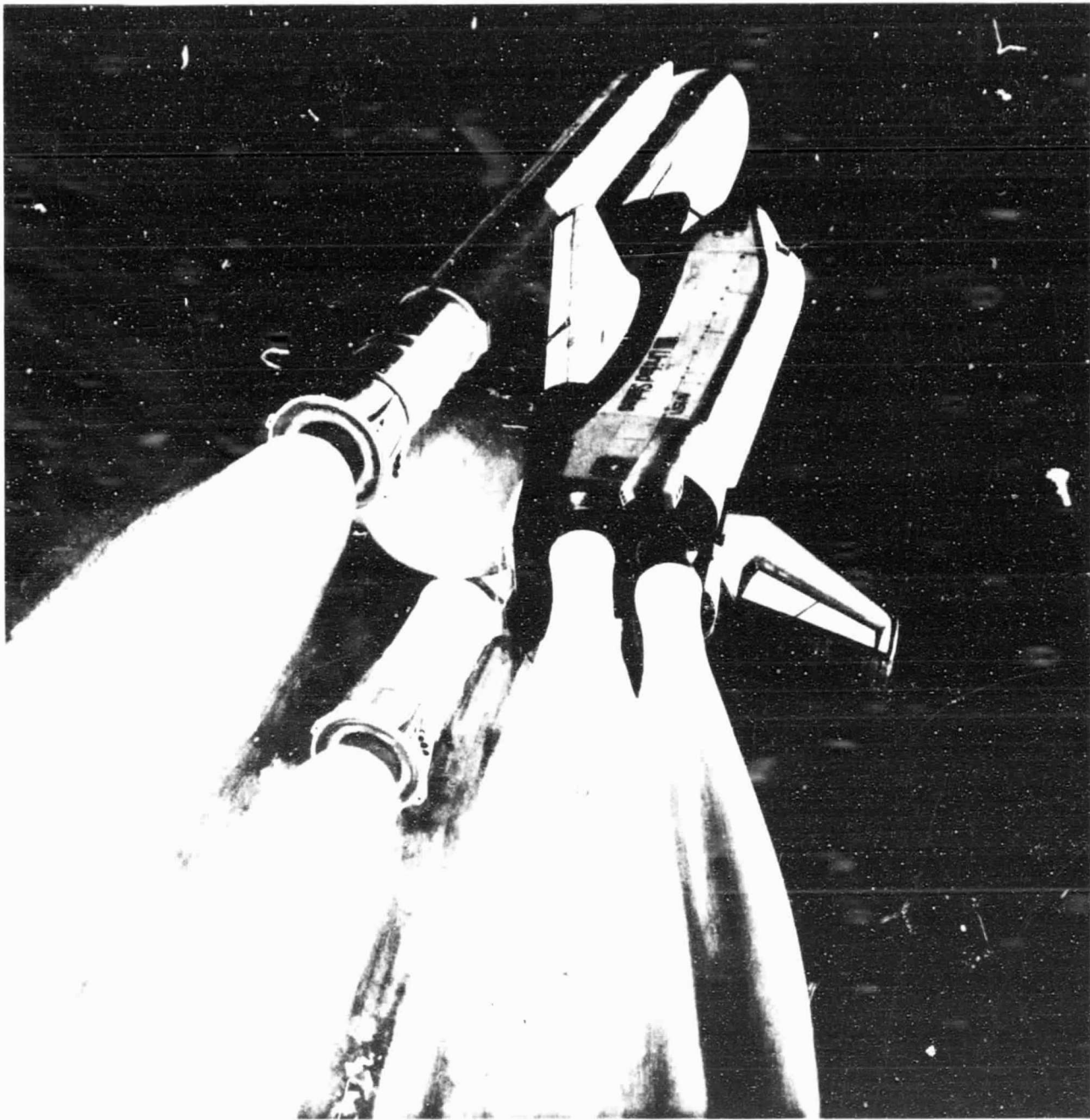
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The Shuttle Era





The Space Shuttle launch vehicle, with the Orbiter attached to the external tank and a pair of solid rocket boosters, climbs upward to begin its route to Earth orbit (artist's concept). This is a low-angle view indicating that the solid rocket boosters will soon be jettisoned. The external tank will also be jettisoned before the Orbiter enters an Earth-orbital configuration.

Cover

A unique high-angle view of the Space Shuttle (artist's concept). The Orbiter, still attached to the external tank as the solid rocket boosters are jettisoned, climbs upward to begin its Earth orbital mission.

CAREERS



Detroit
MICHIGAN
and NASA

NASA IS THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. MANY COMPANIES AND INSTITUTIONS THROUGHOUT THE COUNTRY ARE INVOLVED IN PROVIDING NASA WITH THE EQUIPMENT, MACHINERY, AND RESEARCH THAT NASA NEEDS. IN DETROIT AND MICHIGAN THERE ARE OVER 50 COMPANIES AND INSTITUTIONS WHO HAVE DONE WORK FOR NASA. THESE INCLUDE CAR MANUFACTURERS, RESEARCH LABORATORIES, UNIVERSITIES, FURNITURE MAKERS, EQUIPMENT MANUFACTURERS, COMPUTER AND ELECTRONIC COMPANIES, WEAPONS AND COMMUNICATIONS DEVELOPERS AND MANUFACTURERS.

THE WORK THAT HAS BEEN DONE FOR NASA THROUGH THESE COMPANIES INVOLVES BUILDING COMPUTERS FOR THE SPACE SHUTTLE, WRITING COMPUTER PROGRAMS, MANUFACTURING GEARS AND OTHER PARTS FOR THE SPACE SHUTTLE, BUILDING AND SUPPLYING LABORATORY EQUIPMENT AND FURNITURE. SOME OF THESE GROUPS ALSO UNDERTAKE MANY TYPES OF RESEARCH INCLUDING ENERGY, MEDICINE AND LASERS. OTHERS DESIGN ROCKETS, MISSILES, AND ENGINES. SOME GROUPS PROVIDE TESTING SERVICES FOR NASA TO DETERMINE THE STRENGTH OF MATERIALS, RELIABILITY OF ENGINES, AND ENDURANCE OF SPACE SHUTTLE PARTS.



CITY OF DETROIT
Colesman A. Young, Mayor

THE PEOPLE INVOLVED IN THIS WORK HAVE JOBS AS:



TOOL MAKERS
ELECTRICIANS
ELECTRONICS SPECIALISTS
MACHINE OPERATORS
LATHE OPERATORS
ASSEMBLERS
SALESPERSONS
LASER OPERATORS
LASER RESEARCHERS

DESIGNERS
ARCHITECTS
DRAFTSPERSONS
PHOTOGRAPHIC SPECIALISTS
COMPUTER SPECIALISTS
COMPUTER PROGRAMMERS
ELECTRICAL ENGINEERS
MECHANICAL ENGINEERS
INDUSTRIAL ENGINEERS
METALLURGICAL ENGINEERS
AERONAUTICAL ENGINEERS
CHEMICAL ENGINEERS
CHEMISTS
PHYSICISTS
GEOLOGISTS



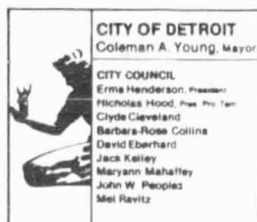
RESEARCHERS
COST ESTIMATORS
AIRCRAFT ENGINE TESTERS
MATERIAL TESTERS

PLAN FOR YOUR FUTURE NOW. ALL OF THESE JOBS REQUIRE COMPLETION
HIGH SCHOOL, AND MANY REQUIRE COLLEGE EDUCATION. YOU CAN GET
TRAINING FOR SOME OF THESE JOBS IN VOCATIONAL TECHNICAL HIGH
SCHOOLS SUCH AS GOLIGHTLY AND DAVIS. FOR MORE INFORMATION ON
THESE CAREERS CONTACT:

YOUR SCHOOL CAREER GUIDANCE COUNSELOR

YOUR LOCAL COMMUNITY COLLEGE

NASA: MR. HARRISON ALLEN, JR.
TECHNICAL UTILIZATION OFFICE
MAIL STOP 7-3
21000 BROOKPARK ROAD
CLEVELAND, OHIO 44135



PLANNING DEPARTMENT

DEPARTMENT OF PUBLIC INFORMATION/1982

Appendix G

Statistical Information about the Schools that
Participated in the Program

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Table I

Elementary, Middle and High Schools Participation
by Day of the Week

		<u># of Elementary Schools</u>	<u># of Middle Schools</u>	<u># of High Schools</u>	<u>Total Schools</u>
Monday	AM	2	12	2	16
	PM	-	-	-	-
Tuesday	AM	3	12	-	15
	PM	1	1	-	2
Wednesday	AM	1	13	1	15
	PM	2	1	1	4
Thursday	AM	3	13	-	16
	PM	2	-	-	2
Friday	AM	4	15	-	19
	PM	-	1	1	2
		<hr/>	<hr/>	<hr/>	<hr/>
		18	68	5	91

Table II

Elementary, Middle and High School Students
Participation by Day of the Week

		<u># of Elementary School Students</u>	<u># of Middle School Students</u>	<u># of High School Students</u>	<u>Total Students</u>
Monday	AM	111	696	96	903
	PM	-	-	-	-
Tuesday	AM	251	720	-	971
	PM	65	57	-	122
Wednesday	AM	48	782	45	875
	PM	73	53	20	146
Thursday	AM	172	720	-	892
	PM	55	-	-	55
Friday	AM	119	796	-	915
	PM	-	37	31	68
		<hr/>	<hr/>	<hr/>	<hr/>
		894	3861	192	4947

A total of 4947 students participated in the program. Of this number, 18% were elementary school students, 78% were middle school students, and 4% were high school students.

Parochial Representation: Two parochial schools participated in the program with students representing 2% of the total.

NOTE: A complete listing of the schools that participated in the program follows on the next pages.

MONDAY, MAY 3, 1982

<u>Name of School & Address</u>	<u>Number of Students</u>
Cadillac Middle School 15125 Schoolcraft Detroit, MI 48227	48
Cerveney Middle School 15850 Strathmoor Detroit, MI 48227	96
Emerson Middle School 18240 Huntington Detroit, MI 48219	48
Guest Middle School 10825 Fenkell Detroit, MI 48238	96
Harding Middle School 14450 Burt Road Detroit, MI 48223	48
Luddington Middle School 19355 Edinborough Detroit, MI 48219	48
Murphy Middle School 23901 Fenkell Detroit, MI 48223	48
Region 4 Open Middle School 19176 Northrop Detroit, MI 48219	48
Taft Middle School 19501 Berg Road Detroit, MI 48219	48
Henry Ford High School 20000 Evergreen Detroit, MI 48219	48
Winship Elem-Middle School 14717 Curtis Detroit, MI 48235	48

Monday, May 3, 1982 (Continued)

<u>Name of School & Address</u>	<u>Number of Students</u>
Dow World of Work 19900 McIntyre Detroit, MI 48219	48
Burton International 3420 Cass Detroit, MI 48201	50
Jefferson Middle School 5102 N. Stoneycreek Monroe, MI 48161	70
Hollywood 1135 Riverview Monroe, MI 48161	48
Harding Elementary 22230 Peters Warren, MI 48091	63

Tuesday, May 4, 1982

Ann Arbor Trail Middle School 7635 Chatham Detroit, MI 48239	48
Brooks Middle School 16101 W. Chicago Detroit, MI 48228	96
Drew Middle School 9600 Wyoming Detroit, MI 48204	96
Lessenger Middle School 8401 Trinity Detroit, MI 48228	48
Noble Middle School 8646 Fullerton Detroit, MI 48238	96
Ruddiman Middle School 7350 Southfield Detroit, MI 48228	48
Tappan Elem-Middle School 11775 American Detroit, MI 48204	48
Winterhalter Middle School 12121 Broadstreet Detroit, MI 48204	48

Tuesday, May 4, 1982 (Continued)

<u>Name of School & Address</u>	<u>Number of Students</u>
Yake Elementary School 16400 Carter Rd. Woodhaven, MI 48183	176
Immanuel Lutheran 47120 Romeo Plk. Rd. Mt. Clemens, MI 48044	27
Hollywood 1135 Riverview Monroe, MI 48161	48
West Junior High 500 Old Perch Rochester, MI 48063	57
Kanter School 17363 Toepfer E. Detroit, MI 48021	65
Condon Middle School 1777 W. Grand Blvd. Detroit, MI 48208	48
Boynton Middle School 12800 Visger Rd. Detroit, MI 48217	48
Earhart Middle School 1000 Scotten Detroit, MI 48209	48
Clippert Middle School 4725 Martin Detroit, MI 48210	48

Wednesday, May 5, 1982

<u>Name of School & Address</u>	<u>Number of Students</u>
Burroughs Middle School 8950 St. Cyril Detroit, MI 48213	98
Cleveland Middle School 13322 Conant Detroit, MI 48212	96
Farwell Middle School 19955 Fenelon Detroit, MI 48234	48
Grant Elementary-Middle School 7479 Stockton Detroit, MI 48234	48
Law Middle School 19490 Carrie Detroit, MI 48234	48
Nolan Middle School 1150 E. Lantz Detroit, MI 48203	96
Richard Middle School 13840 Lappin Detroit, MI 48205	48
Von Steuban Middle School 12300 Linnhurst Detroit, MI 48205	48
Webber Middle School 4700 Tireman Detroit, MI 48204	48
Wilson Middle School 7735 Lane Detroit, MI 48209	48
McMichael Middle School 6230 Grand River Detroit, MI 48208	48
Munger Middle School 5525 Martin Detroit, MI 48210	48

Wednesday, May 5, 1982 (Continued)

<u>Name of School & Address</u>	<u>Number of Students</u>
Hollywood 1135 Riverview Monroe, MI 48021	48
Wylie Middle School 3060 Kensington Drive Dexter, MI 48130	62
Redford High 21431 Grand River Detroit, MI 48219	45
Golightly Educational 5536 St. Antoine Detroit, MI 48202	62
Seminde Junior High 1500 Mulberry Mt. Clemens, MI 48043	53
Gordon Elementary 22400 Gordon St. Clair Shores, MI 48081	11
Cass High School 2421 Second Detroit, MI 48201	20

Thursday, May 6, 1982

Barbour Middle School 4209 Seneca Detroit, MI 48214	48
Butzel Middle School 2301 Van Dyke Detroit, MI 48214	48
Foch Middle School 2962 Fairview Detroit, MI 48214	96
Miller Middle School 2322 Dubois Detroit, MI 48207	48

Thursday, May 6, 1982 (Continued)

<u>Name of School & Address</u>	<u>Number of Students</u>
Dorothy L. Fisher 10125 King Richard Detroit, MI 48224	48
Hollywood 1135 Riverview Monroe, MI 48161	48
Holy Name 680 Harmon Birmingham, MI 48009	82
Bedford Public School 8486 Douglas Road Temperance, MI 48182	42
Keith Elementary 10800 E. Canfield Detroit, MI 48215	32
Couzens Elementary 3550 John C. Lodge Detroit, MI 48202	23
Remus Robinson Middle School 13000 Essex Detroit, MI 48215	96
Whitney Young Middle School 2757 Macomb Detroit, MI 48207	48
Columbus Middle School 18025 Brock Detroit, MI 48205	48
Hamilton Middle School 14223 Southampton Detroit, MI 48213	48
Rosa Parks Middle School 8030 E. Outer Drive Detroit, MI 48213	48
Jackson Middle School 4180 Marlborough Detroit, MI 48215	48
Joy Middle School 4611 Fairveiw Detroit, MI 48214	48

Thursday, May 6, 1982 (Continued)

<u>Name of School & Address</u>	<u>Number of Students</u>
Burbank Middle School 15600 E. State Fair Detroit, MI 48205	48

Friday, May 7, 1982

Beaubien Middle School 19701 Wyoming Detroit, MI 48221	96
Coffey Middle School 17210 Cambridge Detroit, MI 48235	48
Durfee Middle School 2470 Collingwood Detroit, MI 48206	48
Hampton Middle School 3900 Pickford Detroit, MI 48221	48
Hutchinson Middle School 8820 Woodrow Wilson Detroit, MI 48206	48
Jefferson Middle School 950 Selden Detroit, MI 48201	24
Spain Elementary-Middle School 3700 Beaubien Detroit, MI 48201	24
Knudsen Middle School 2600 Leland Detroit, MI 48207	48
Longfellow Middle School 13141 Rosa Parks Blvd. Detroit, MI 48238	96
Pelham Middle School 2001 Myrtle Street Detroit, MI 48208	48
Post Middle School 8200 Midland Detroit, MI 48238	96

Friday, May 7, 1982 (Continued)

<u>Name of School & Address</u>	<u>Number of Students</u>
Region 5 Open Middle School 2585 Grove Detroit, MI 48221	48
Sherrard Middle School 8300 Cameron Detroit, MI 48211	48
Hollywood 1135 Riverview Monroe, MI 48161	48
Adventure School 1775 Melton Birmingham, MI 48005	18
Wylie Middle School 3060 Kensington Drive Dexter, MI 48130	62
Alumni 29726 John J. Roseville, MI 48006	43
Power Middle School 34740 Rhonswood Farmington, MI 48024	14
Couzens Elementary School 3550 John C. Lodge Detroit, MI 48202	10
Chatterton Middle School 23200 Ryan Road Warren, MI 48091	10
Cooley High School 15055 Hubbell Detroit, MI 48227	31

Appendix H

Newspaper Articles

1. April 29, 1982, Detroit Monitor
2. April 29, 1982, Inside Wayne State
3. May 4, 1982, Detroit Free Press
4. May 4, 1982, Detroit News
5. May 4, 1982, Windsor Star
6. May 6, 1982, Inside Wayne State

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'Space Odyssey' At Wayne

Astronauts Jack R. Lousma and Charles G. Fullerton, who recently completed the United States' third space shuttle flight, will visit the Detroit Space Odyssey opening Monday, May 3, at Wayne State University.

Lousma and Fullerton will be guests of honor Monday at the space program in the Student Center Building which will feature a variety of special exhibits designed by the National Aeronautics and Space Administration, including

Mercury, Gemini and Apollo capsules, Skylab, space shuttle and astronaut training apparatus, and a moon rock.

Scheduled to run through Saturday, May 8, the program, designed especially for Detroit area students, teachers, and the general public, is being sponsored by the Lewis Research Center of NASA, Wayne State, the Detroit Public Schools, and the City of Detroit.

In addition to viewing space displays, visitors will have the opportunity to talk to NASA engineers and scientists about space exploration and job opportunities in aerospace.

Admission will be limited to reserved groups of students from Detroit and area schools during the weekday morning hours, but the general public is invited to participate in the afternoons and from 9 a.m. to 5 p.m. on Saturday.

There is no charge for admission. Further information may be obtained by calling 577-2416.

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Page Three

Detroit Space Odyssey Scheduled for May 3-8 at University



Astronauts Lousma and Fullerton

Astronauts Jack R. Lousma and Gordon Fullerton who recently completed the United States' third space shuttle flight, will visit the Detroit Space Odyssey opening Monday, May 3, at the university.

Lousma and Fullerton will be guests of honor at the Space Odyssey Program in the Student Center Building, and spend the day touring the university, meeting with students and city officials.

The Space Odyssey program will feature a variety of special exhibits designed by the National Aeronautics and Space Administration, including Mercury, Gemini and Apollo capsules, Skylab, Space shuttle and astronaut training apparatus, and a moon rock.

Scheduled to run from Monday, May 3 through Saturday, May 8, the program, designed especially for

Detroit area students, teachers, and the general public, is being sponsored by the Lewis Research Center of NASA, Wayne State, the Detroit Public Schools, and the City of Detroit.

In addition to viewing space displays, visitors will have the opportunity to talk with the astronauts and NASA engineers and scientists about space exploration and job opportunities in aerospace.

Admission will be limited to reserved groups of students from Detroit and area high schools during the weekday morning hours, but the general public is invited to participate in the afternoons and from 9 a.m. to 5 p.m. on Saturday. There is no charge for admission. Further information may be obtained by calling 577-2416.

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DETROIT FREE PRESS/TUESDAY, MAY 4, 1982



Free Press Photo by HUGH GRANNUM

Spacemen meet fans

Astronauts Charles G. Fullerton, left, and Jack R. Lousma discussed their recent space shuttle flight Monday with youngsters at the Detroit Space Odyssey exhibits in the Wayne State University Student Center Building. The week-long event, which covers such topics as astronaut food, and space capsules, is free. It runs from noon to 5 p.m. through Friday and from 9 a.m. to 5 p.m. Saturday.

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Tuesday, May 4, 1982—THE DETROIT NEWS—



'WAY OUT' VISITORS — Astronauts Charles Fullerton, left, and Jack Lousina talk with Bill Tervo, 14, during opening ceremonies of the Detroit Space Odyssey, a NASA exhibit at Wayne State University: The pair flew the space shuttle on its third flight in late March.

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Inside Wayne State—

MAY 6, 1982

Astronauts Welcomed to Campus



Welcoming the Astronauts to WSU — left to right, Arthur Jefferson, superintendent of Detroit Public Schools; Charles G. Fullerton, Columbia shuttle pilot; Corrine Gilb, director of City Planning for Detroit; Jack R. Lousma, shuttle commander, and Arthur Johnson, vice president for Community Relations. Fullerton and Lousma opened the Detroit Space Odyssey featuring an extensive NASA space exhibit at the Student Center Building. The exhibit, which began Monday will continue through Saturday. It is free and open to the general public weekday afternoons and from 9 a.m. to 5 p.m. on Saturday. Fullerton and Lousma recently completed the United States' third space shuttle flight.

Appendix I

Publicity about Detroit Space Odyssey Program

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Publicity about Detroit Space Odyssey Program

The event was a success and was well represented in the media. This is directly attributable to the cooperation and hard work put forth by all the people and organizations involved. Listed below is a brief run-down of the coverage which the Space Odyssey received:

<u>Radio Station</u>	<u>Reporter/Interviewer</u>	<u>Air Date</u>	<u>Air Time</u>
WDET	Patti Rabbit	May 3, 1982	afternoon-evening
CKLW	Clint Nickerson	May 3, 1982	afternoon-evening

<u>Television Station</u>	<u>Reporter/Interviewer</u>	<u>Air Date</u>	<u>Air Time</u>
Channel 4	Bob Vito	May 3, 1982	Evening News
Channel 2	Woody Willis	May 3, 1982	Evening News
Channel 7	Bordon Graham	May 3, 1982	Evening News

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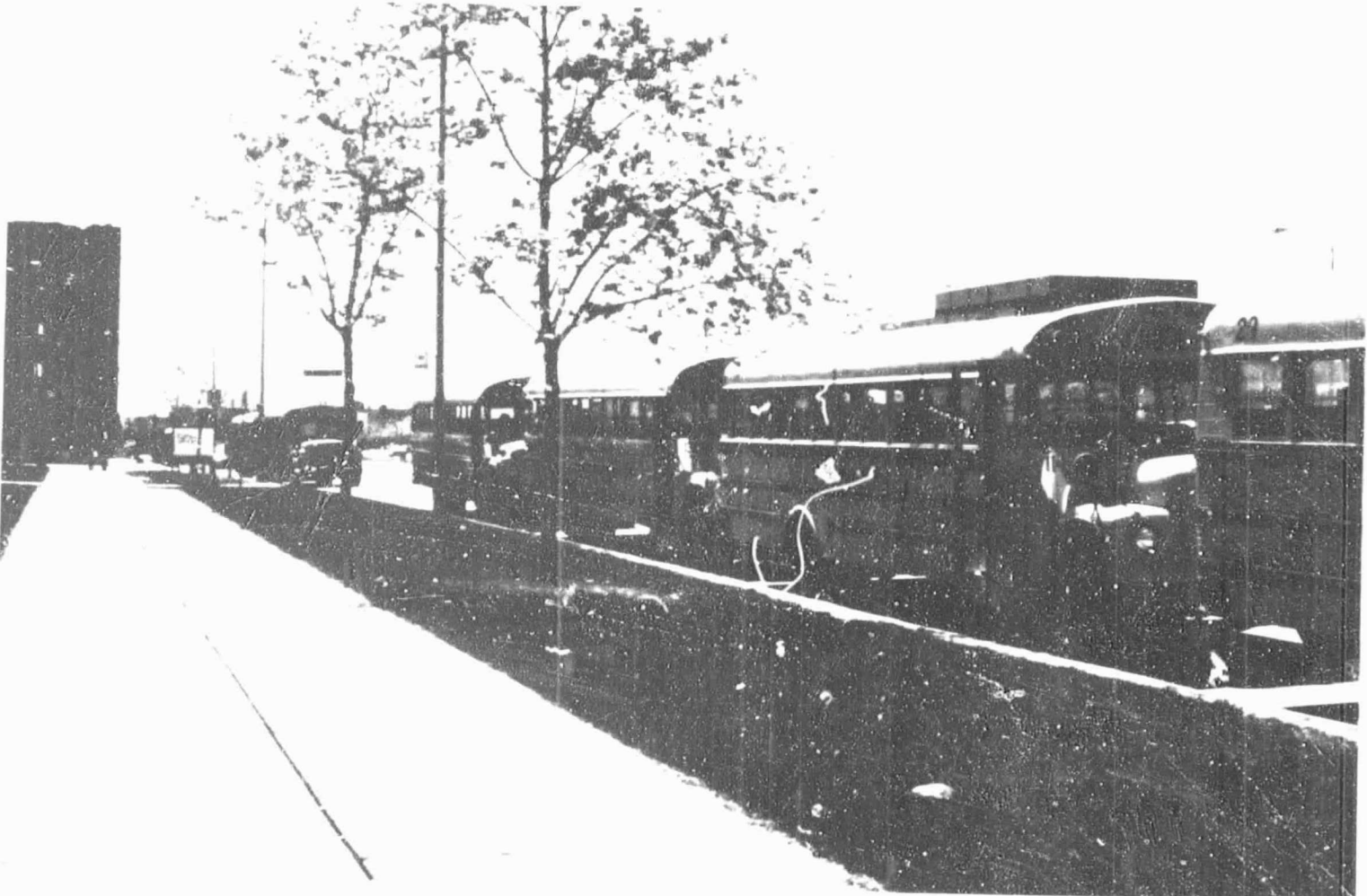
Appendix J

Photographs of Detroit Space Odyssey Program

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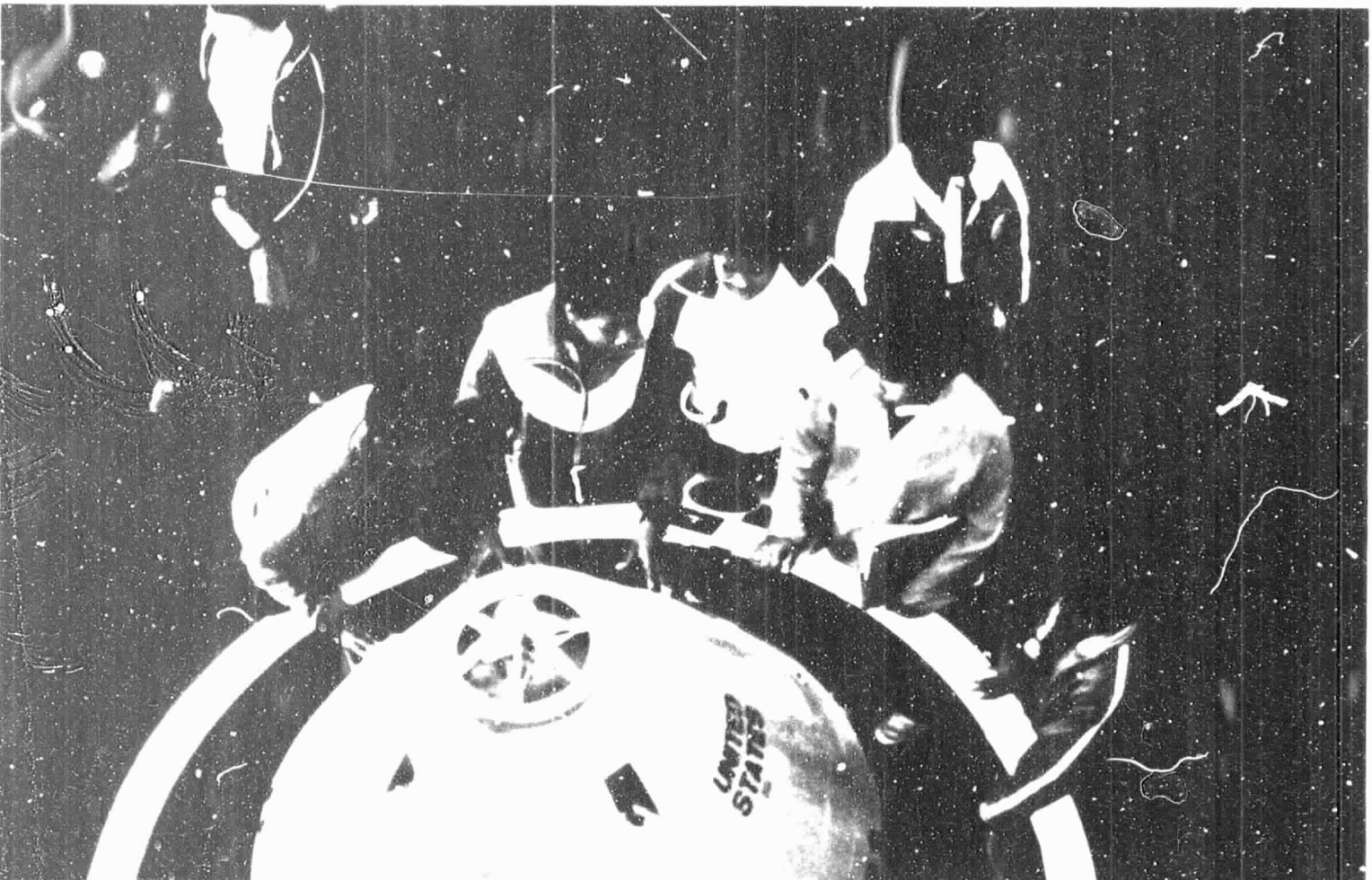


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Appendix K

Letters from Students and Teachers Expressing Their Reactions
to the Detroit Odyssey Program

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DETROIT PUBLIC SCHOOLS



MATHEMATICS AND SCIENCE EDUCATION
5057 Woodward Avenue
932 Schools Center Building
Detroit, MI 48202

May 10, 1982

Dr. John McCarthy, Director
Lewis Research Center
NASA
21000 Brookpark Road
Cleveland, Ohio 44135

Dear Dr. McCarthy:

I want you to know what a great pleasure it was for us to work with Harrison Allen in the planning and implementation of the Detroit Space Odyssey, May 3-8, 1982. The cooperation of your hard working staff as well as the celebrated astronauts, Jack Lousma and Charles Fullerton, was outstanding.

The impact of the program on students, teachers and the general public was immeasurable. We considered the Detroit Space Odyssey the major event in our school year. I hope that it will be possible for other cities to benefit from similar programs. In that event, I will be more than pleased to share our experiences and advice with the school personnel who may become involved.

Sincerely,

A handwritten signature in dark ink, appearing to read "Paul Hovsepian".

Paul Hovsepian
Director,
Mathematics and Science Education

/tt

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DETROIT PUBLIC SCHOOLS



Ruddiman Middle School
7350 Southfield Road
Detroit, Michigan 48228

May 13, 1982

Mr. Allen
NASA, Lewis Research Center
Cleveland, Ohio 44135

Dear Mr. Allen,

Recently our students participate in the NASA presentation at Wayne State University. We enjoyed the opportunity to share in this program and appreciated the efforts of your staff.

Sincerely,
E. Dawson
E. Dawson,
Counselor

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DETROIT PUBLIC SCHOOLS

REGION FOUR

IVAN LUDINGTON MIDDLE SCHOOL

19355 EDINBOROUGH DETROIT, MICHIGAN 48219 PHONE 533-8530

June 11, 1982

Mr. Allen Harrison
NASA, Lewis Research Center
Cleveland, Ohio 44135

Dear Mr. Harrison,

We would just like to thank you for inviting us to
your Detroit Space Odyssey. We really enjoyed it.
We especially liked the part with the astronauts.
We also liked the demonstrations. Thank you again.

Sincerely,

Bill Mahler (teacher)

Ludington Middle School
Eighth Grade Students

EDWARD A. WILLIAMS, PRINCIPAL JENNIFER SHELTON, ASSISTANT PRINCIPAL
JOHN F. HAUCK, REGION FOUR SUPERINTENDENT
CENTRAL ADMINISTRATION NORMAN V. FUQUA, EXECUTIVE DEPUTY SUPERINTENDENT
ARTHUR JEFFERSON, GENERAL SUPERINTENDENT OF SCHOOLS

DETROIT PUBLIC SCHOOLS



MATHEMATICS AND SCIENCE EDUCATION
5057 Woodward Avenue
932 Schools Center Building
Detroit, MI 48202

May 11, 1962

Mr. Harrison Allen, Jr.
Chief, Technology Utilization Officer
Lewis Research Center
NASA
21000 Brookpark Road
Cleveland, Ohio 44135

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Dear Harrison:

The attached letter speaks for itself. I do, however, want to express directly to you my personal appreciation for bringing the program to us and for all your efforts.

One of the "Spin-Offs" from the Detroit Space Odyssey is that I have gained a new friend whom I shall always value.

Sincerely,

A handwritten signature in dark ink, appearing to read "P. Hovsepian", is written over a faint, larger signature.

Paul Hovsepian
Director,
Mathematics and Science Education

/tt

P.S. Thanks again for the momentos. I plan to have the autographed picture of the astronauts and the sky view map of Detroit suitably framed for the office.

DETROIT PUBLIC SCHOOLS



June 24, 1982

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Mr. Harrison Allen, Jr.
National Aeronautics and
Space Administration
Lewis Research Center
Cleveland, Ohio 44135

Dear Harrison,

Participating in the Detroit Space Odyssey was a great experience for me. The cooperation and great effort that was contributed by representatives of the City of Detroit, Wayne State University, the Detroit Public Schools, and NASA certainly resulted in a wonderful educational experience for our metropolitan Detroit area students. Meeting the astronauts was a special thrill!!

As you requested, I have prepared a replication of Appendix G of the Cleveland Space Odyssey Report using Detroit attendance data. Karen Salome supplied input from the reservations that she received at Wayne State and I folded it into the Detroit Public Schools information. John Zukowski obtained the letters from staff and students. Unfortunately, I am not able to give you many photos, but have included the ones that I was able to take between transportation duties. Please let me know if I can be of more assistance. I look forward to the complete report.

As you stated in your cordial letter of June 17, the Detroit Space Odyssey was an overwhelming success, and I am proud to have been part of the planning and implementation team. Best wishes for continued success!

Sincerely,

Juanita Bilinski
Director
Audiovisual Education Department

cc: Lewis E. Ellis
Paul Hovsepian
Dorothy Moore
Karen Salome



May 20, 1982

Dr. John Zukowski
Detroit Public Schools
5057 Woodward Avenue
Detroit, Michigan 48202

Dear Dr. Zukowski:

The Detroit Space Odyssey Program held in the Student Center Building on the Wayne State University campus, May 3-8, 1982, was an outstanding success. The success of this important program, however, was due not only to the cooperative work of Detroit Public Schools, the City and Wayne State University, but also to the time, personal commitment and energy that were contributed by you and others of our colleagues on the planning committee.

On behalf of the planning committee for Detroit Space Odyssey and for myself personally, I want to express to you our heartfelt appreciation.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Arthur L. Johnson'.

Arthur L. Johnson

DETROIT PUBLIC SCHOOLS



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CLEVELAND MIDDLE
SCHOOL
13328 CONANT
DETROIT, MICHIGAN
48212

Dear Mrs. Allen,

We, the Science Class of Cleveland Middle School, enjoyed your company, watching us the "Detroit Space Odyssey." We were delighted to be invited. Each and everyone of us has learned something new from this visit.

We really enjoyed the different techniques and way you space travel. It was a meaningful and educational experience. We can't tell you how much we enjoyed it. But we hope that this letter will tell you how much you helped us to learn more about space.

Thank you.

Sincerely,
Miss Davis,
Science Class of
Cleveland Middle School

Students of Rosa Parks
Middle School
Detroit Public School

Mr. Harrison Allen
NASA
Lewis Research Center
Cleveland, Ohio
44135

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Dear Mr. Lewis,

On behalf of our fellow students, we would like to thank you for inviting us to participate in exploring the different fields and careers in the NASA program.

We really enjoyed the orientation given on the aluminum alloy products.

We all were very interested in finding out how the astronauts nourish their bodies while in space.

In closing, we would like to thank you again for the invitation to the Detroit Space Odyssey Program, sponsored by

the NASA Lewis Research Center.
We would recommend that
this program be continued in
the future, so that other stu-
dents will have the same op-
portunity to learn about car-
ers in this exciting new field.

Sincerely,
Students of Rosa Parks
Middle School, D.P.S.

Tiffani Swint
Terry Dorsey
Joni Johnson

George Carr
Science Teacher

June 1, 1982

Mr. Harrison Allen
NASA Center
Cleveland, Ohio

We are sending you this message of 'thanks' for bringing such a fantastic Space Odyssey program to Wayne State University, Detroit, Michigan. All of us had a wonderful time. I noted that my students expressed a very ^{great} appreciation in the information and demonstrations presented by the two speakers we heard.

We sincerely hope that NASA will elect to bring another (or the same) wonderful program to our area again.

Sincerely,
Mr. Robert Williams (Science Teacher)
and the students of Winterhatter Middle School,
2121 Broadstreet
Detroit, Michigan 48204

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Hampton Middle
June 4, 1982

Mr. Harrison Allen Jr.
NASA, Lewis Research Center
Cleveland, Ohio, 44135

Dear Mr. Harrison,
The Detroit Space Odyssey was an exciting
and adventurous opportunity for me to see
and learn about the Spaceship Columbia and
its works. I hoped will be able to experience this
again.

Sincerely Yours,
Alera Winston
8-208

Hampton Middle School
June 4, 1982

Dear Mr. Harrison Allen Jr.

Thanks for coming to Detroit, and teaching us more about Space, N.A.S.A and the things used building the Spaceship Columbia. I learned a lot ~~for~~ from this experience. There are still some unanswered questions I have lingering in my mind.

Sincerely,
Terry Smith
8-208

P.S I'm the kid that
doubted the foam
wasn't hot.

Students of Winterhalter Middle School Say "Thanks"

Vicki L. Peterson
Joseph L. Mitchell
Montina V. Duncan
James Willis
Karena Wilkes
Mary Nichols
Cassandra Suggs
Sabara Huey
Cathy Chapman
Jeannette Parks
Oscar Pearson
Lashinda Perry
~~Yolanda Murray~~
Jerome Taylor
James Jordan
Sonya White
VIOLETA M. MURRAY
Affreda Stanfield
Loma Hairston
Kevin Dwyer
Reynaldo Jones
Dimitrios Emley
Jerome W. Steen
Johnny Golden
Solomon Foster
Geneva Rose

Gregory Crowell
William Nyles
Lisa Marrett
Kenneth Matthews
Bernelua Rogers